

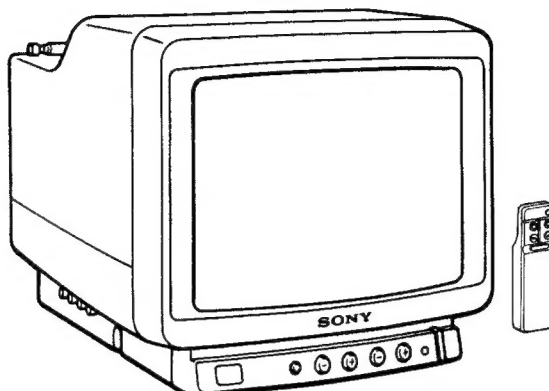
# KV-8AD10

## RM-759

# SERVICE MANUAL

*Canadian Model*

Chassis No. SCC-C40A-A



**Note:** The service manual for RM-759 has been issued separately.

### MODELS OF THE SAME SERIES

KV-8AD10	

### SPECIFICATIONS

Television system  
Channel coverage

American TV standard  
VHF channels 2-13  
UHF channels 14-69

Picture tube

Trinitron tube  
8-inch picture measured diagonally  
9-inch picture tube measured diagonally  
70-degree deflection

Antenna  
Inputs

VHF/UHF telescopic antenna  
VIDEO IN VIDEO: phono jack  
1 Vp-p, 75 ohms  
VIDEO IN AUDIO: phono jack  
-5 dBs, 47 kohms  
EXT ANT/CAMCORDER IN: minijack  
75 ohms

Output  
Power requirements

HEADPHONES: minijack  
120 V AC, 60 Hz  
12 V DC

Power consumption

AC IN: 33 W max.  
DC IN: 26 W max.

Dimensions

Approx. 220 x 213 x 311 mm (w/h/d)  
(8<sup>3</sup>/<sub>4</sub> x 8<sup>1</sup>/<sub>2</sub> x 12<sup>1</sup>/<sub>4</sub> inches)

Weight

Approx. 4.5 kg (8 lb 11 oz)

Accessories supplied

RM-759 Remote Commander with  
2 size AA(R6) batteries (1)  
AC power cord (1)  
Antenna connector (1)  
Car battery cord (1)  
Connecting cord VMC710M/720M  
Car antenna VCA-3W, VCA-4

Optional accessories

Design and specifications are subject to change without notice.



TRINITRON® COLOR TV  
**SONY®**


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### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

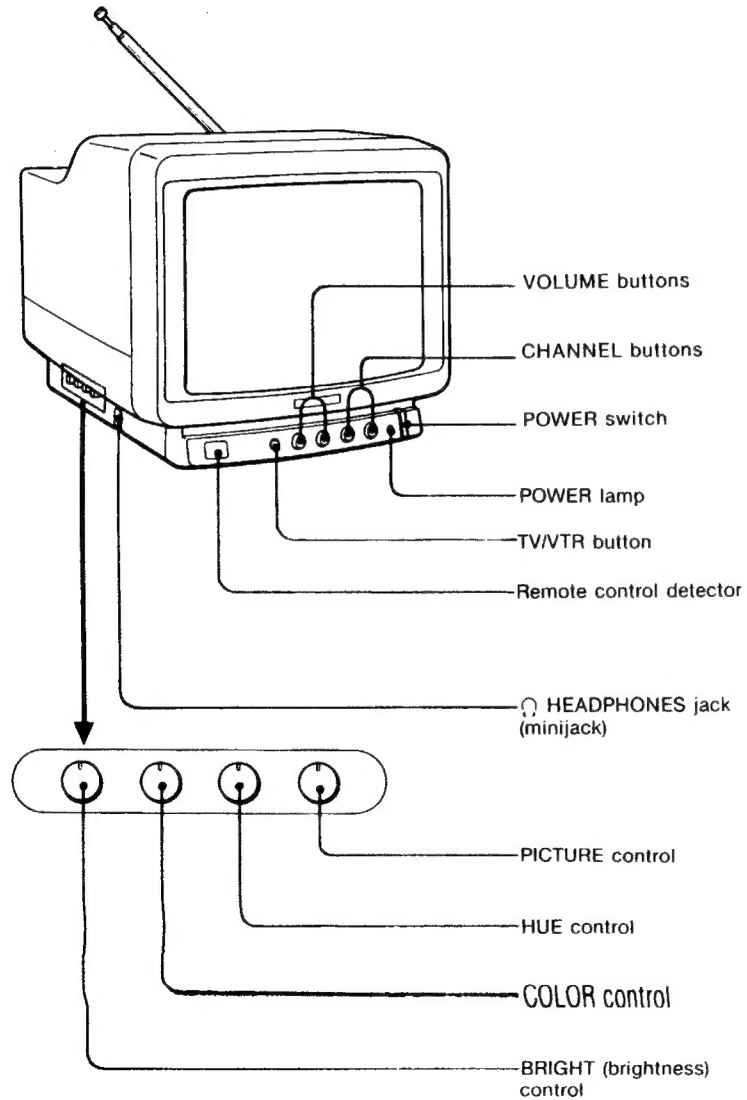
### ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

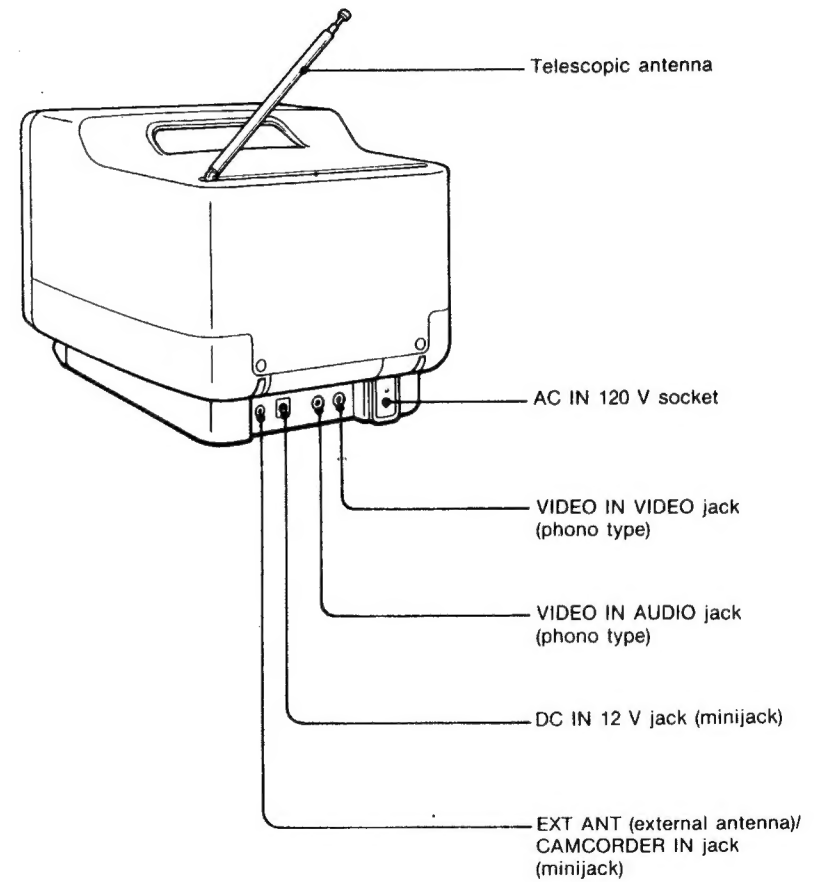
## SECTION 1 GENERAL

### 1-1. NAME AND LOCATION OF CONTROLS

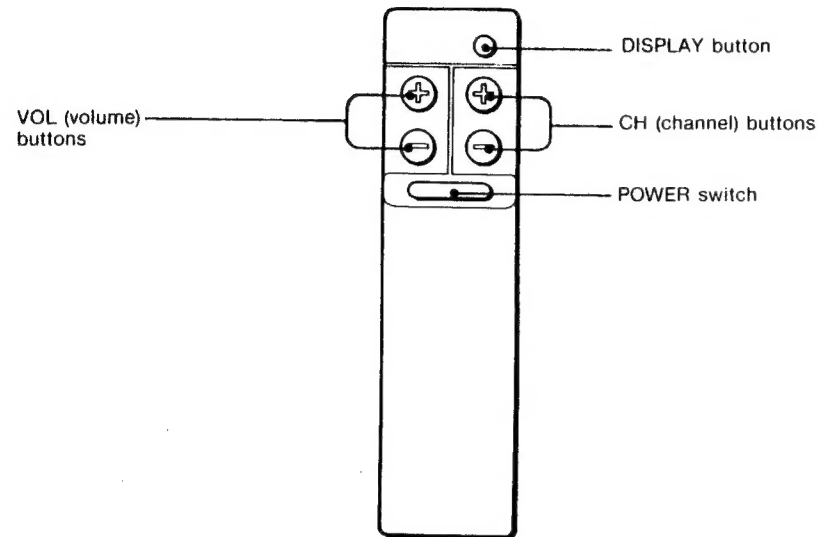
Front



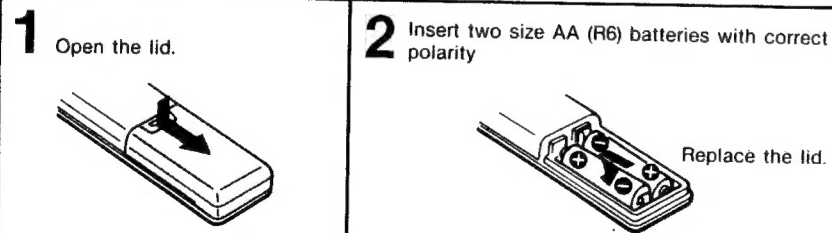
Rear



## Remote Commander



## How to insert the batteries

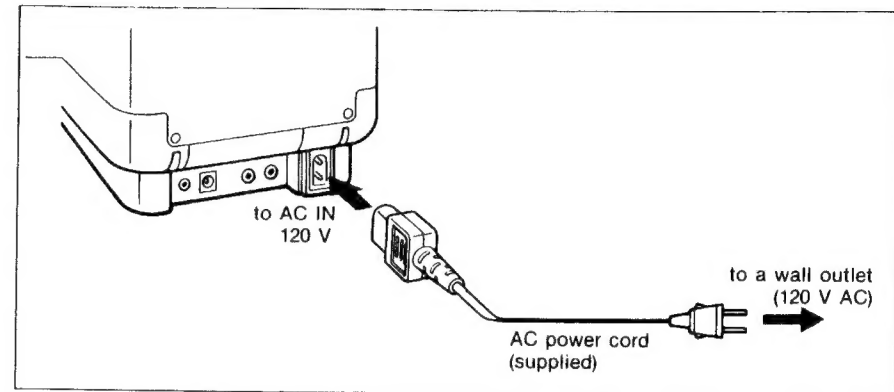


### Notes

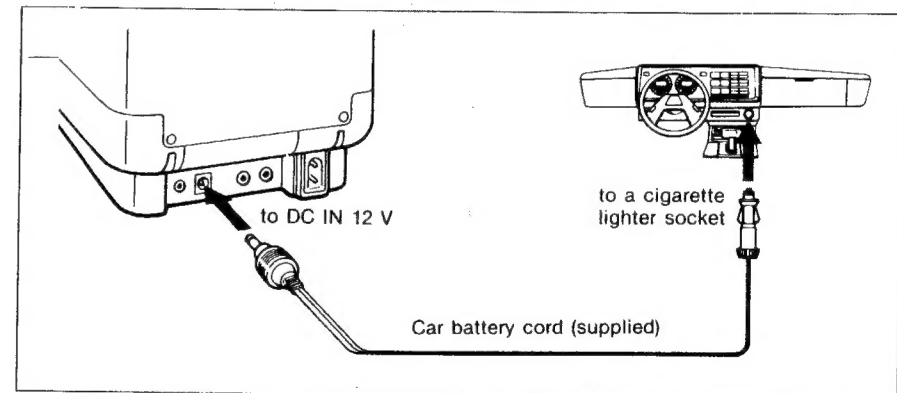
- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Commander and the TV.
- Operable range is limited.
- If a Remote Commander not recommended is used to operate this TV, or if the supplied Remote Commander is used to operate another TV, the TV may not operate properly.

## 1-2. FIRST CHOOSE YOUR POWER SOURCE

### When using the house current



### When using a car battery



### Notes

- The unit is designed for negative ground 12 V DC operation only.
- Use only the supplied car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



Polarity of the Sony plug

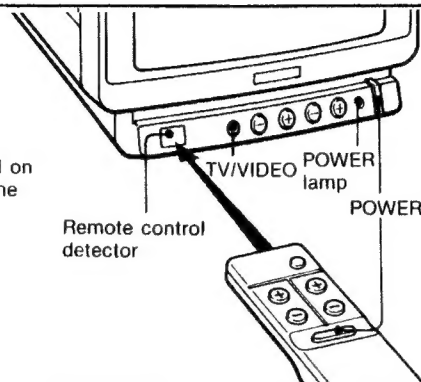
### 1-3. HOW TO WATCH THE TV

For each of the steps below, you can press either the buttons on the TV or the ones on the Remote Commander.

#### 1 Turn on the TV.

Press POWER.  
The power lamp lights.

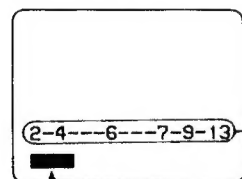
- If the "VIDEO" indication is displayed on the screen, press TV/VIDEO so that the indication disappears.



#### 2 Select the desired channel.

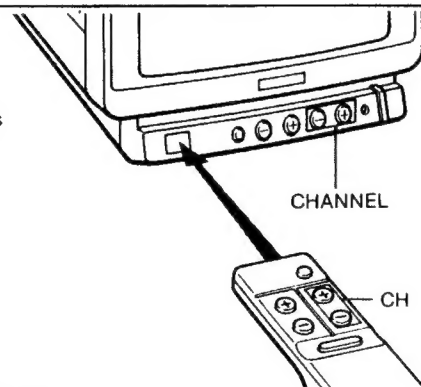
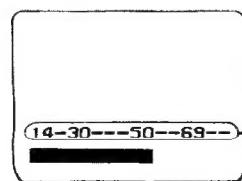
Each time CHANNEL (or CH) + or - is pressed, the adjacent channel is automatically tuned in.

On-screen display while tuning



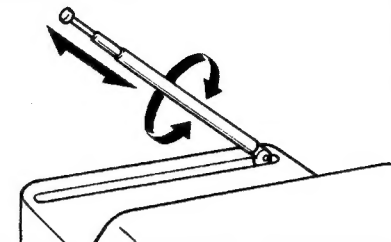
indicates channel tuned in

When no additional channel is received in the VHF band, the on-screen display changes.



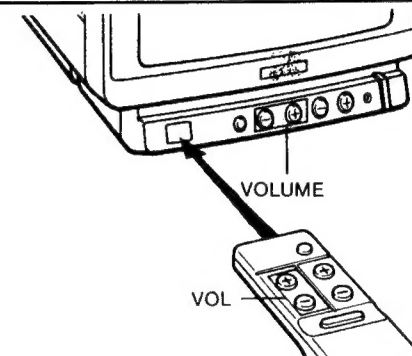
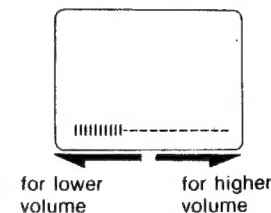
#### 3 Adjust the antenna.

Pull out the telescopic antenna and adjust its length and direction until the picture is clearest.



#### 4 Adjust the volume.

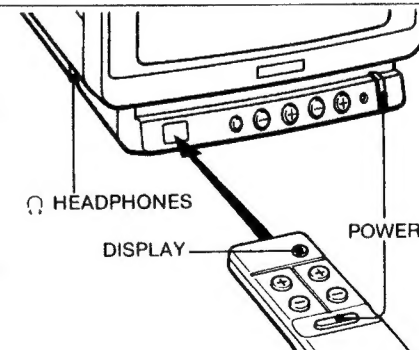
For higher volume, press "+".  
For lower volume, press "-".



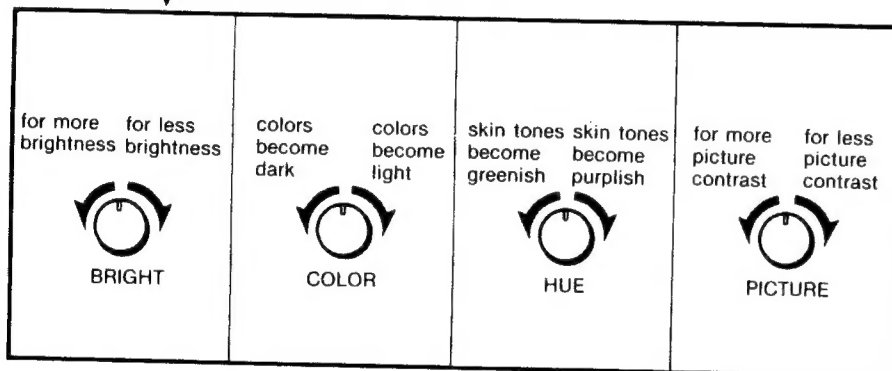
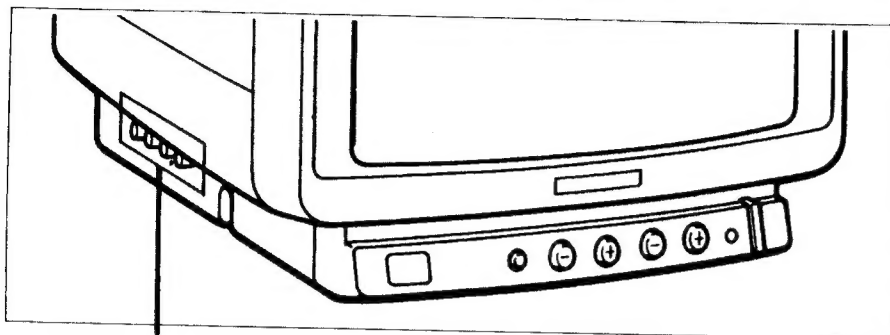
**To turn off the TV**  
Press POWER again.

**To make the channel numbers and a bar appear on the screen for 3 seconds**  
Press DISPLAY. If the unit is in video mode, the "VIDEO" indication will appear.

**To listen with a pair of headphones**  
Connect the optional headphones to the HEADPHONES jack. The sound is monaural.



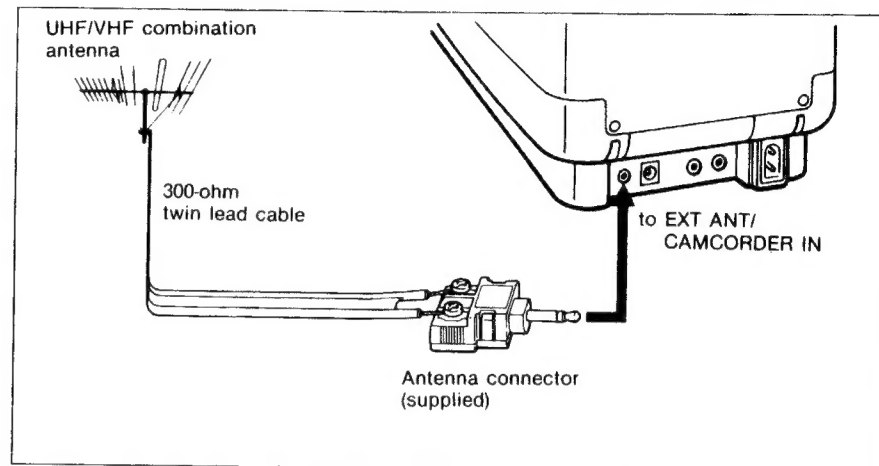
## How to adjust the picture



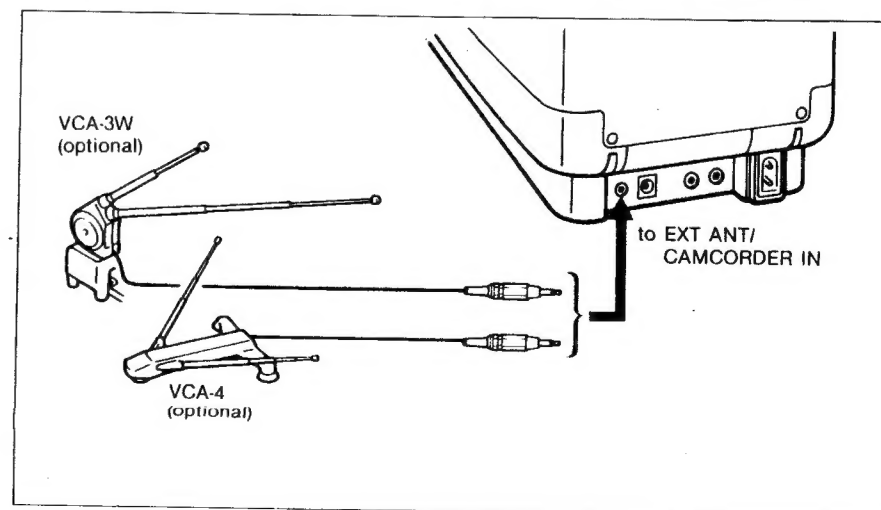
## 1-4. IF YOU WANT TO CONNECT AN EXTERNAL ANTENNA

### When connecting an outdoor antenna

If you cannot obtain satisfactory reception with the telescopic antenna, use an external antenna.

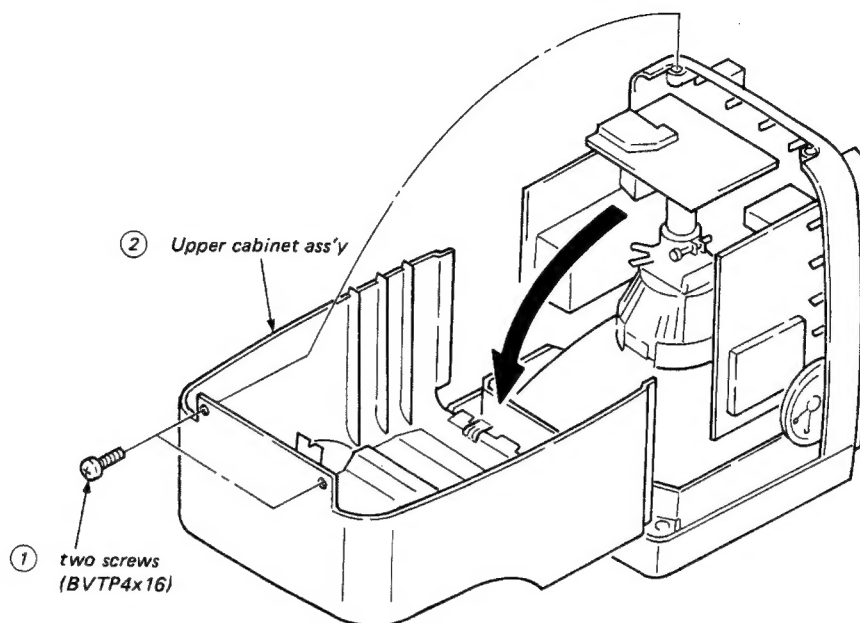


### When connecting a car antenna

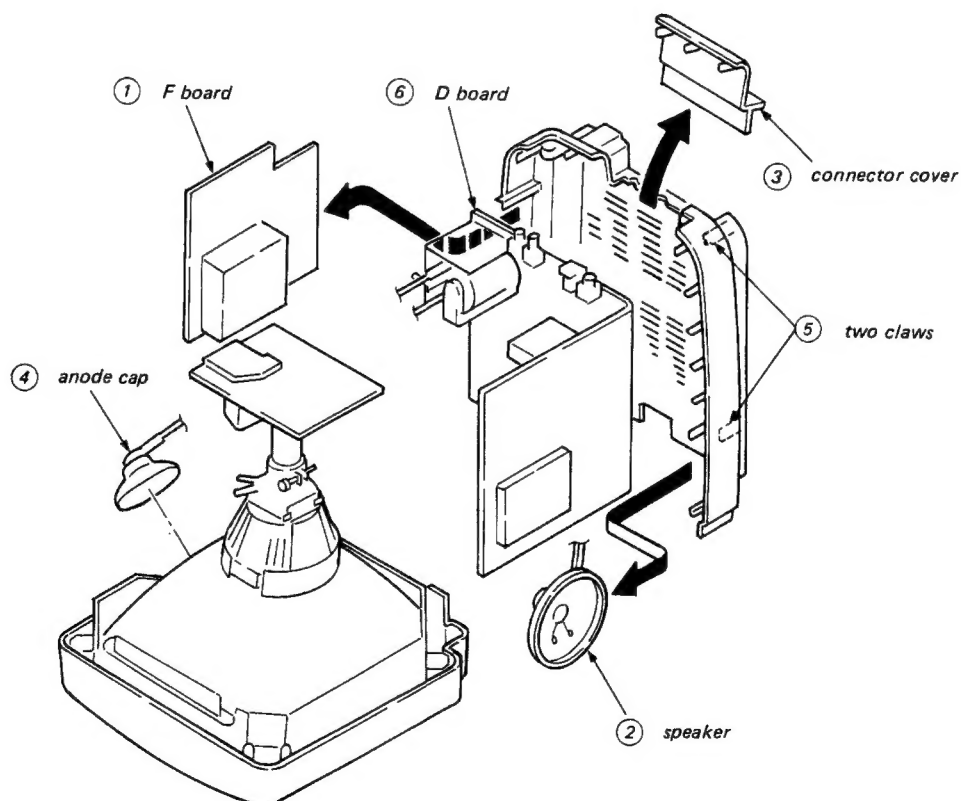


## SECTION 2 DISASSEMBLY

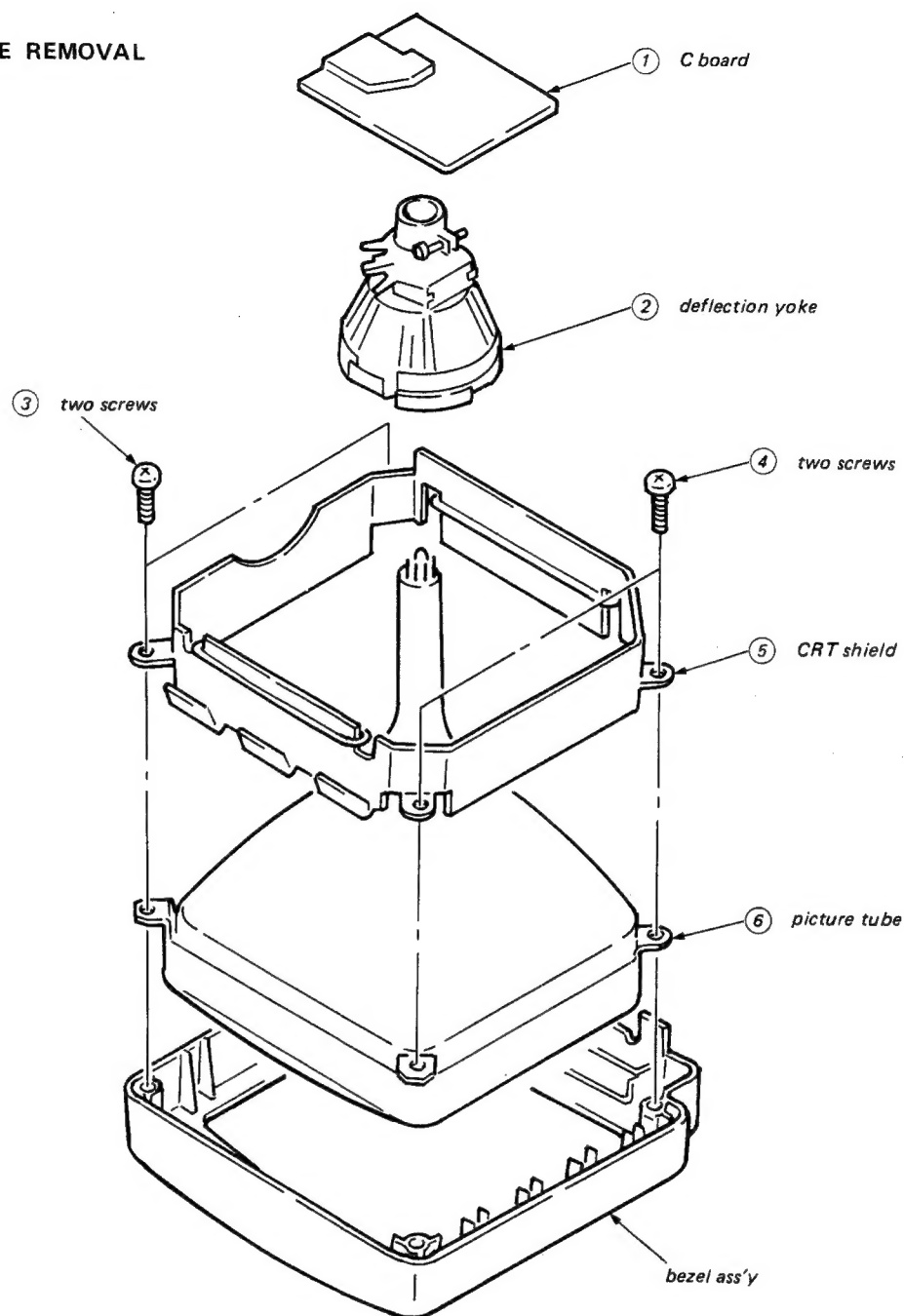
### 2-1. UPPER CABINET ASS'Y REMOVAL



### 2-2. D BOARD REMOVAL

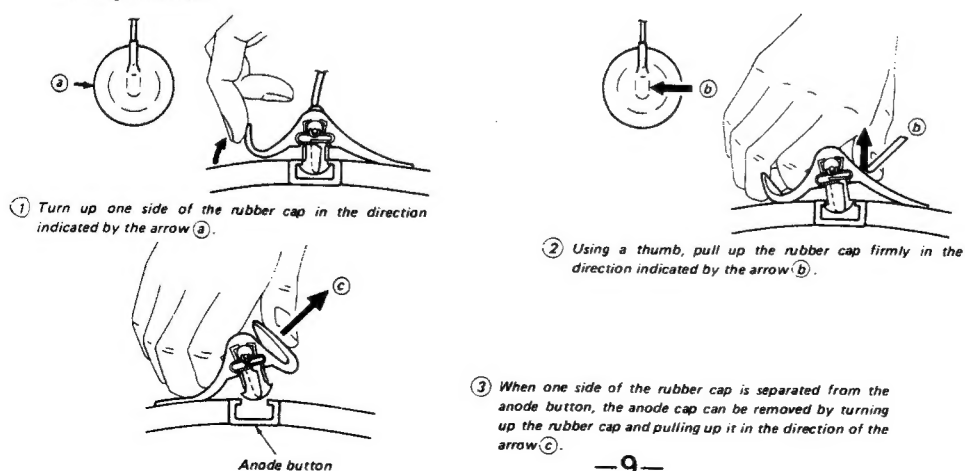


## 2-3. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE CAP

#### Removing Procedures





## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted :

PICTURE control.....click position  
BRIGHTNESS control.....click position

Perform the adjustments in order as follows :

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

**Note :** Test Equipment Required.

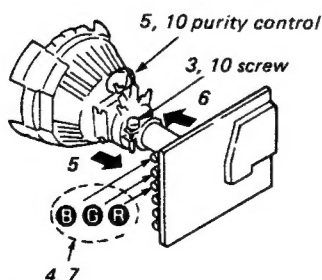
1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

#### 3-1. BEAM LANDING

Preparation :

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Turn on set power supply and receive an all-white signal.
2. Evenly degauss the entire screen.
3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 3-1.
4. Set BKG VR Ⓡ to maximum and set ⓑ and ⓒ to minimum.
5. Move the deflection yoke back, and adjust the purity control so that ⓐ is in the center and ⓒ and ⓑ are at the sides, evenly. (Fig. 3-2.)
6. Move the deflection yoke forward so that the entire screen is red.
- \*If the deflection yoke is pushed all the way to the CRT then moved slightly forward, landing adjustment is easier.
7. Substitute ⓒ, then ⓑ for Ⓡ in step 4 and check landing.
8. Rotate Ⓡ, ⓒ and ⓑ once each and check landing.
9. When landing is not right, adjust the purity control and use magnets as shown in Fig. 3-3 then repeat steps 7 and 8.
10. When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.



Note: The numbers (3-10) show above steps.

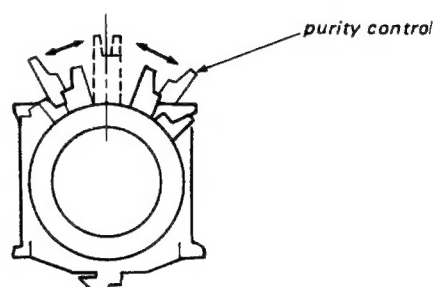


Fig. 3-1.

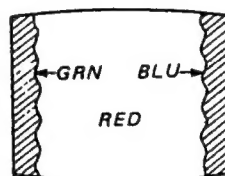


Fig. 3-2.

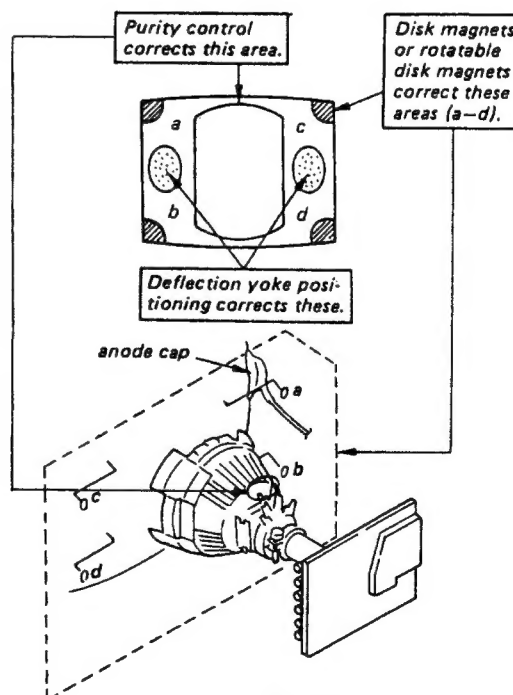


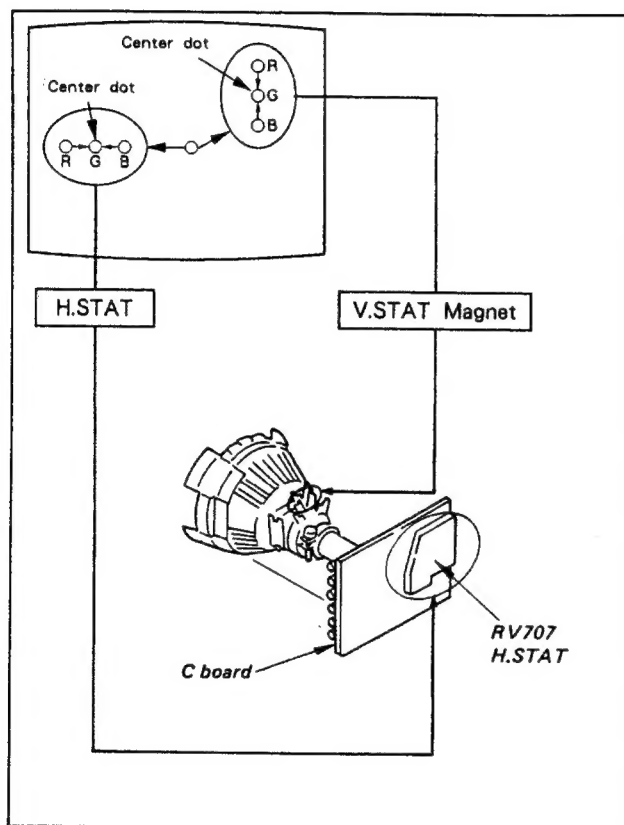
Fig. 3-3.

## 3-2. CONVERGENCE

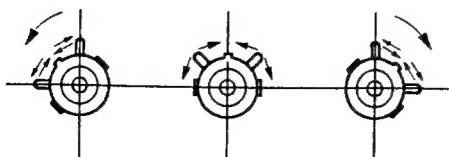
## Preparation :

- Before starting, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Turn BRIGHTNESS control to fully counterclockwise and PICTURE control to click position.
- Feed in the dot pattern.

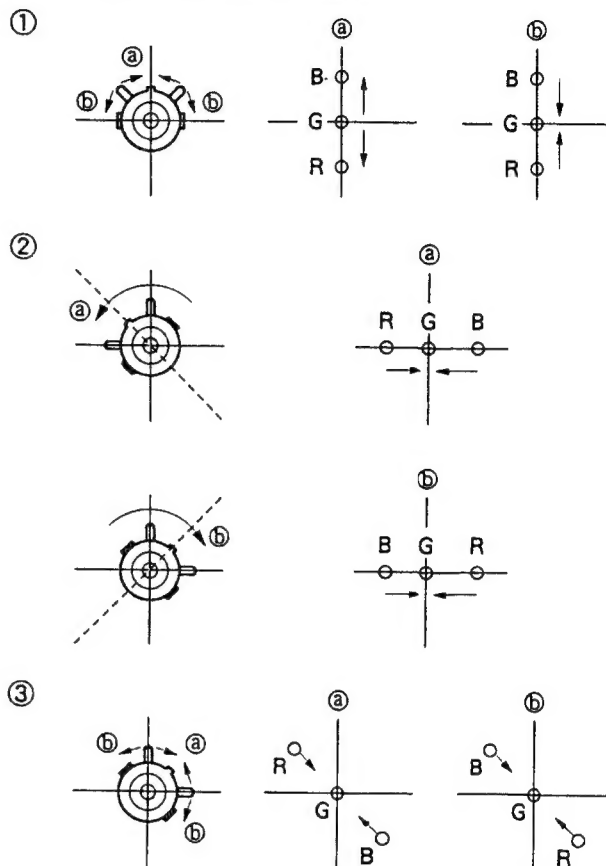
## (1) Horizontal and Vertical Static Convergence



1. Adjust H.STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
  2. Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
  3. If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.

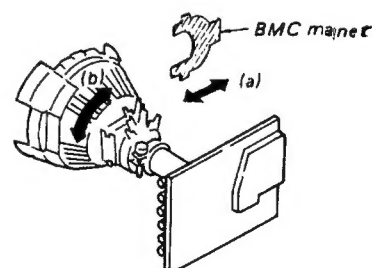


If blue dot does not coincide with red and green dots perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V static convergence.

In either case, repeat Beam Landing Adjustment.

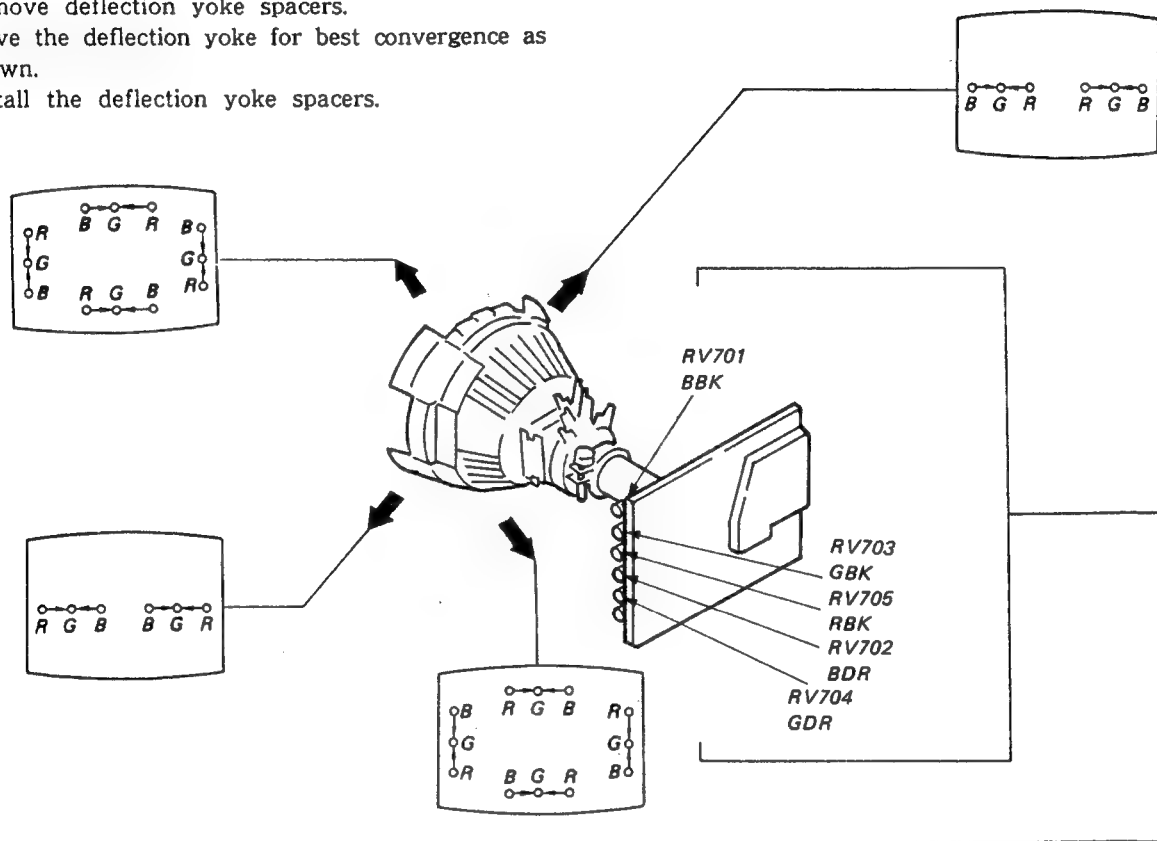


## (2) Dynamic Convergence Adjustment

### Preparation :

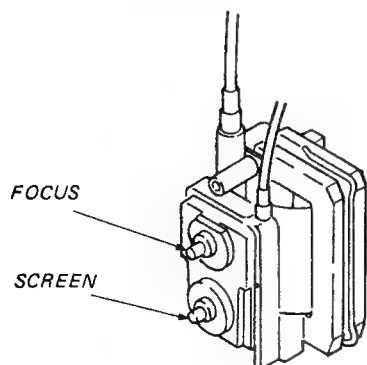
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Remove deflection yoke spacers.
2. Move the deflection yoke for best convergence as shown.
3. Install the deflection yoke spacers.



### 3-3. FOCUS

- (1) Input monoscope signal.  
PICTURE control .....80 %  
BRIGHT control .....50 %
- (2) Adjust FOCUS control for a best picture at the center and both sides of the screen.



### 3-4. WHITE BALANCE

- Input dot signal from pattern generator.
- PICTURE control .....click position
- BRIGHTNESS control .....click position

#### [SCREEN (G2)]

1. Adjust BKG VRs (RV701, RV703, and RV705) so that voltages on the red, green and blue cathodes are 100Vdc with an oscilloscope as shown in Fig.1.

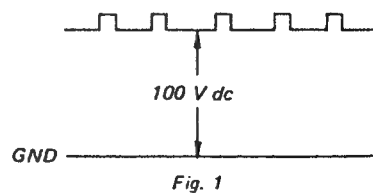


Fig. 1

2. Observe the screen and adjust Screen control to obtain the faintly visible background of dot signal. Note the color that first becomes visible by turning SCREEN control.  
Do not turn a BKG control for this color.

[WHITE BALANCE]

1. Input entirely white signal from pattern generator.
2. Set the PICTURE control to obtain the faintly visible raster on the screen.
3. Observe the screen and adjust the other two BKG VRs for best white balance.
4. Set the PICTURE control at maximum.
5. Observe the screen and adjust the DRIVE VRs (RV702, RV704) for best white balance.
6. Repeat steps 2 through 5 several times.

## SECTION 4

### SAFETY RELATED ADJUSTMENTS

#### ☒ R821, R822 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

When replacing the following components (marked with ☒ on the schematic diagram), always perform the adjustment as follows:

IC201, D501, D806, C506, C510, C810, R505, R506, R508, R806, R807, R808, R821, R822, T802 (FBT)

##### (1) Preparation before confirmation

1. Turn the POWER switch ON, and receive entirely color-bar signals and set the PICTURE and BRIGHTNESS controls to center click.
2. Confirm that the voltage of TP86 is more than 30.5V when the set is operating normally with 120V AC supply.

##### (2) Hold-down operation confirmation

1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS controls to center click.
2. Apply DC voltage of over 42.4V gradually to TP86 via 1T40 from the DC stabilized power source. Confirm that the minimum voltage is less than 42.5V DC whereby the raster disappears during the hold-down circuit operation.

**NOTE:** When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

##### (3) Hold-down readjustment

When step (2) is not satisfied, readjustment should be performed by altering the resistance value of R821, 822 (a component marked with ☒).

##### (4) Confirmation of hold-down erroneous operation

1. Turn the POWER switch ON, and receive dot signals and set the PICTURE and BRIGHTNESS controls to minimum.
2. Confirm that the hold-down circuit does not operate by turning the POWER switch ON and OFF repeatedly several times.

**NOTE:** If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

3. Turn the POWER switch ON, and receive dot signals and entirely white signals, and set the PICTURE and BRIGHTNESS controls to maximum.
4. Confirm that the hold-down circuit does not operate by performing switchover of the channels of the dot signals and entirely white signals several times.

**NOTE:** If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.

5. If the above-mentioned steps 1 to 4 are not satisfied reconfirm steps (2) to (4) by altering the R821, 822 smaller resistance value (a component marked with ☒).

#### CONFIRMATION WHEN REPLACING T802 (FLY-BACK TRANSFORMER)

The following adjustments should always be performed with reference to whether an X-ray radiation control circuit is connected or not, when replacing H.V.R. (High-Voltage Registor)

\*This check is to be performed when H.V.R. only is replaced, and has no relation to the hold-down circuit readjustment for replacement of parts marked ☒.

##### (1) Connection confirmation

1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS controls to maximum.
2. When the set is operating normally with 120V AC supply, confirm that the voltage of TP86 is over 32.0  $\pm$  1.5V DC.

#### +B MAX VOLTAGE CONFIRMATION

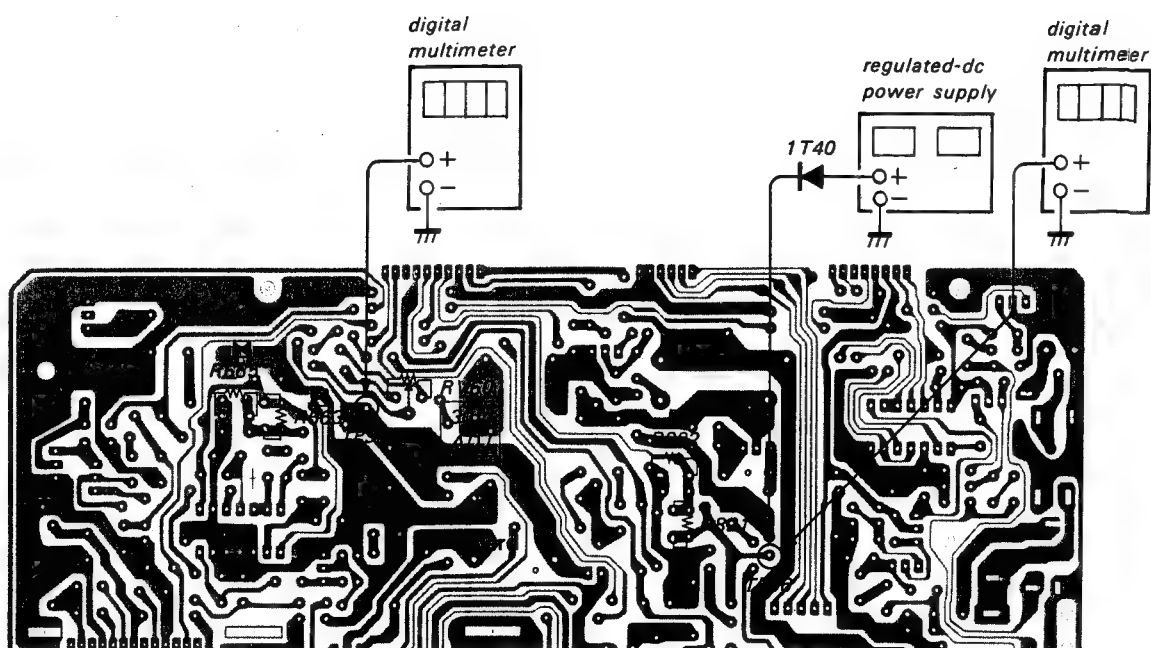
( ☒ R663, R665)

When replacing the following components (marked with ☒ on the schematic diagram), perform the adjustment as follows:

IC651, Q651, D651, R655, R658, R659, R660, R662, R663, R664, R665, R667, L651, RV601

1. Supply 130 $\pm$ 3 V AC to with variable auto-transformer.
2. Receive color-bar signals.
3. Set the PICTURE and BRIGHTNESS controls to center click.
4. Adjust RV601 (30V ADJ) so as to become maximum.
5. Confirm the voltage of TP91 is less than 33.0V DC.

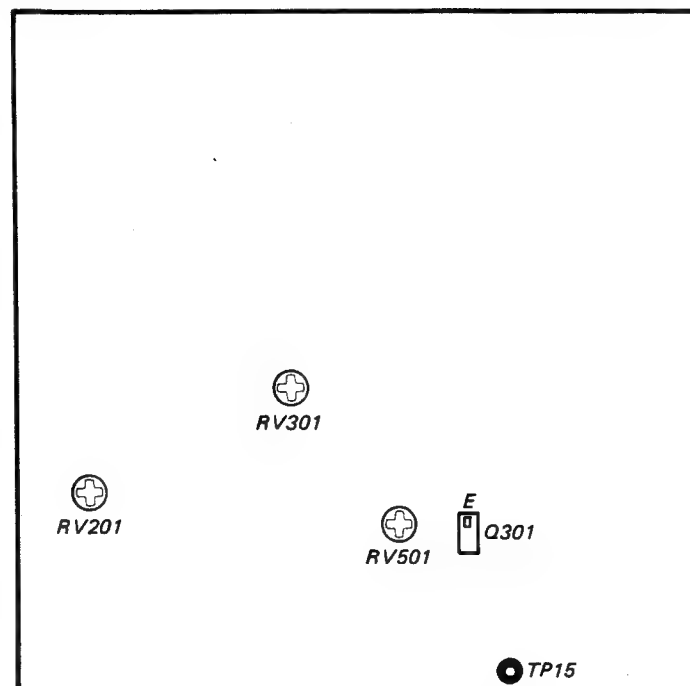
\*Use a digital multimeter whose input impedance over 100M  $\Omega$  when confirming the voltage of the protector terminal of H.V.R.



## SECTION 5 CIRCUIT ADJUSTMENT

### 5-1. A BOARD ADJUSTMENTS

A BOARD (COMPONENT SIDE)

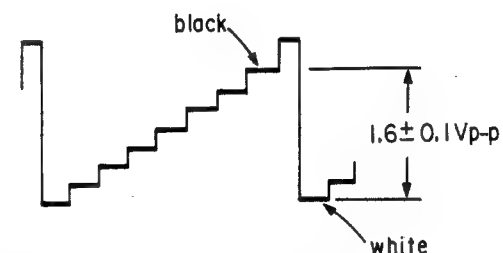


#### TUNER AGC ADJUSTMENT (RV201)

1. Receive a color-bar signal.
2. Connect the digital multimeter across TP15 and ground.
3. Adjust RV201 so that voltage is  $6.0 \pm 0.3V$  DC.

#### SUB CONTRAST ADJUSTMENT (RV301)

1. Receive a color-bar signal.
2. PICTURE.....center click
3. Observe the Q301 emitter waveform on the oscilloscope.
4. Adjust RV301 until the black and white signal level becomes  $1.6 \pm 0.1V_{p-p}$ .

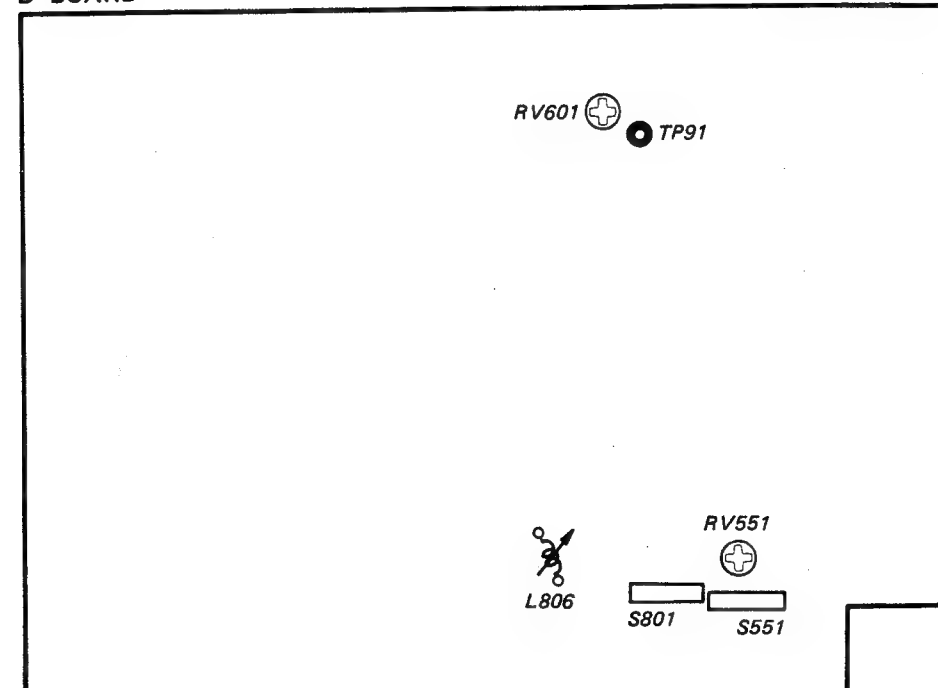


#### H.SIFT ADJUSTMENT (RV501)

1. Set the V.CENT (S551) and H.CENT (S801) on the D board to the best position.
2. Set the RV501 to center.
3. Adjust S801 for best picture.
4. If it is impossible with S801, adjust RV501.

### 5-2. D BOARD ADJUSTMENTS

D BOARD (COMPONENT SIDE)



#### V.SIZE ADJUSTMENT (RV551)

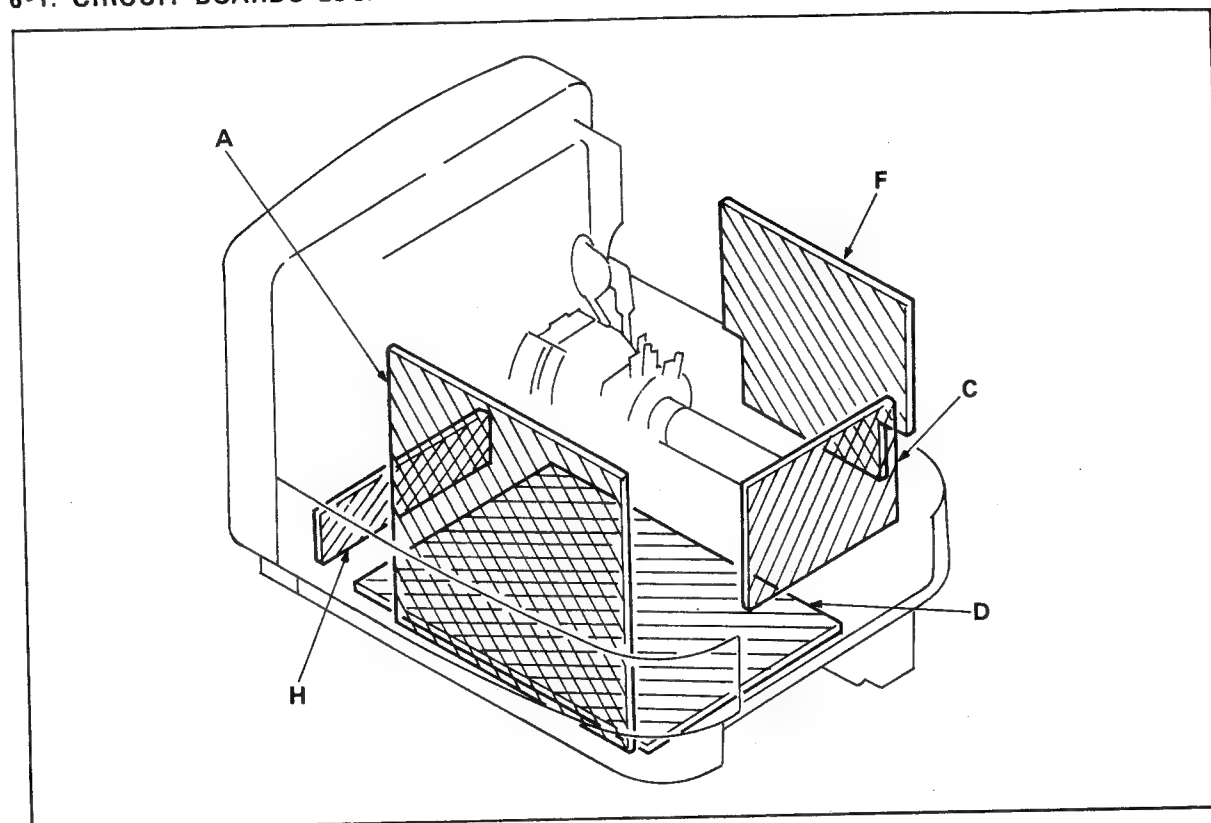
1. Receive a cross-hatch signal.
2. PICTURE.....center click  
BRIGHT .....center
3. Adjust RV551 for best picture.

#### H.SIZE ADJUSTMENT (L806)

1. Receive a cross-hatch signal.
2. PICTURE.....center click  
BRIGHT .....center
3. Adjust L806 for best picture.

SECTION 6  
DIAGRAMS

## 6-1. CIRCUIT BOARDS LOCATION



## 6-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM

**Note:** The components identified by shading and mark are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**Note:**

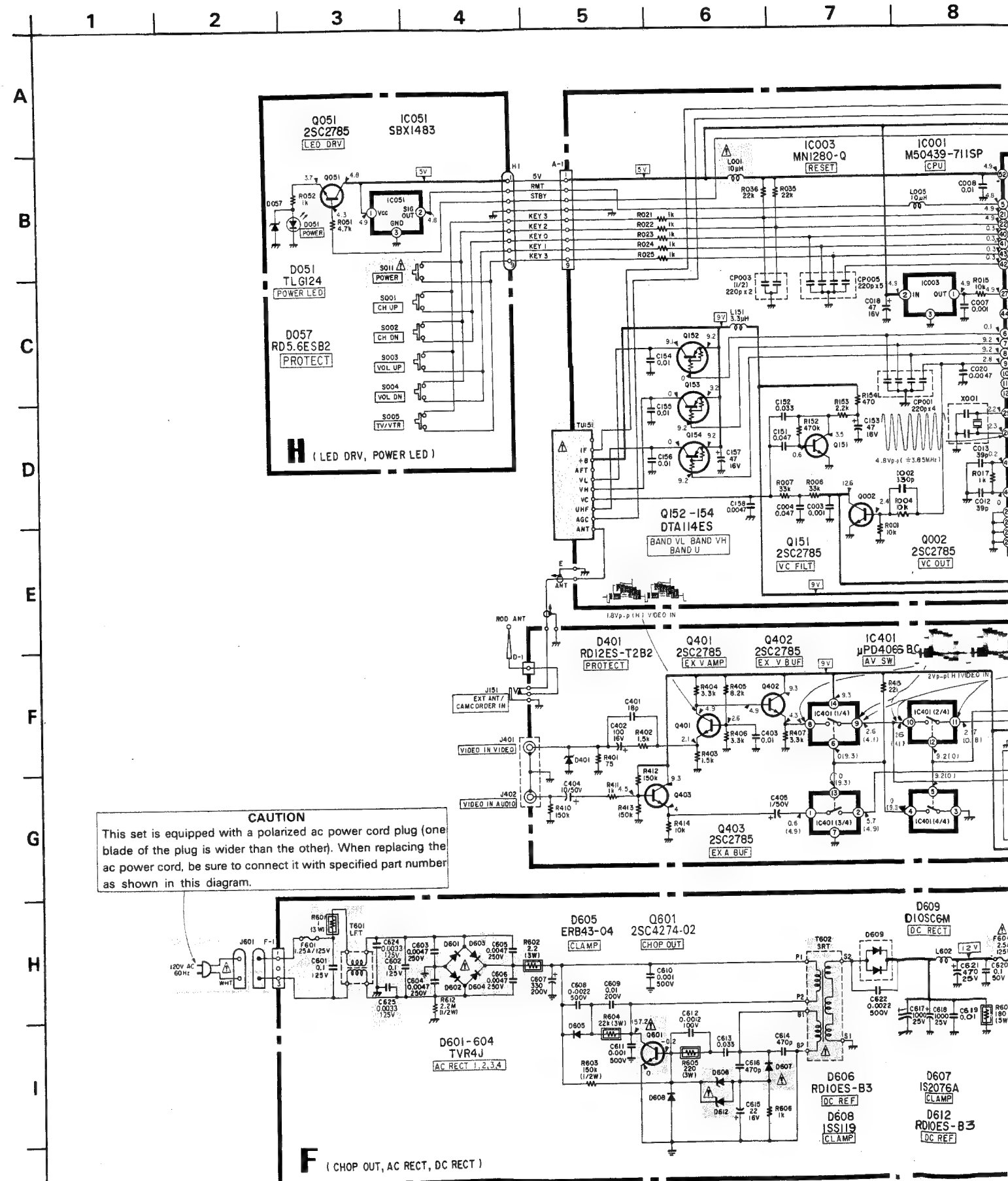
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. p:  $\mu\text{pF}$ . 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  $\text{k}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{k}\Omega$ .
- All resistors are in ohms, 1/4W unless otherwise noted.  $\text{k}\Omega : 1000\Omega$ ,  $\text{M}\Omega : 1000\text{k}\Omega$ .
- : nonflamable resistor.
- $\Delta$ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- When replacing components identified by mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R821, R822, R663 and R665 adjustment on page 14, 15.)

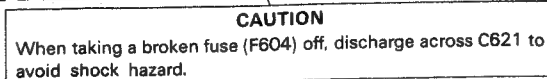
When replacing the part in below table, be sure to perform the related adjustment.

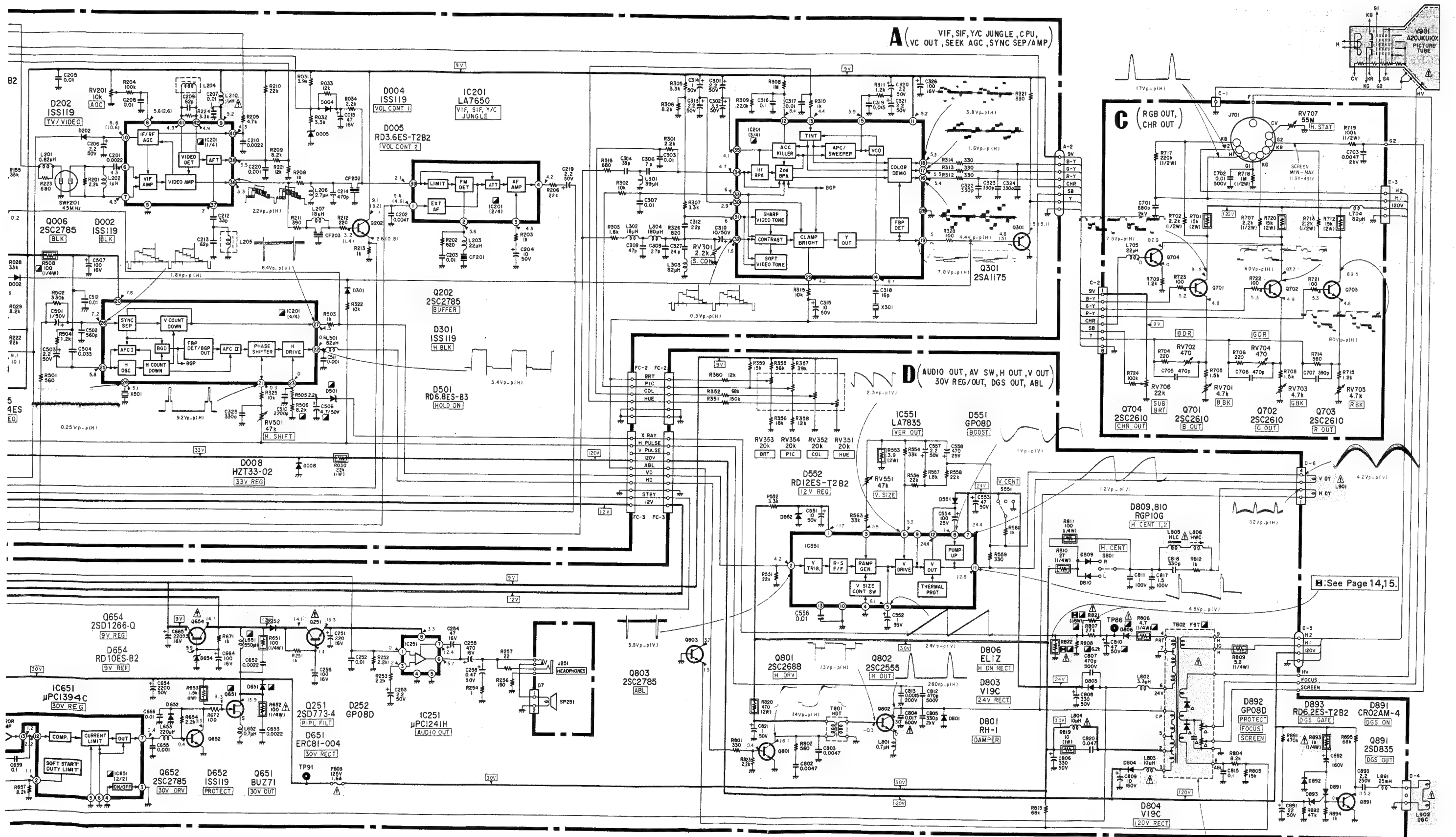
Part replaced (  )	Adjustment (  )
IC201, D501, D806, C506, C510, C810, R505, R506, R508, R806, R807, R808, R821, R822, T802 (FBT)	R821, R822 (HV HOLD DOWN)
IC651, Q651, D651, R655, R658, R659, R660, R662, R663, R664, R665, R667, L651, RV601	R663, R665 (+B MAX)

- Readings are taken with a color-bar signal input.
- no mark : VHF IN
- ( ) : VIDEO IN
- Readings are taken with a 10M $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- $\times$  : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- - - : B - bus.
- : signal path.
- : adjustment for repair or semiconductor function.







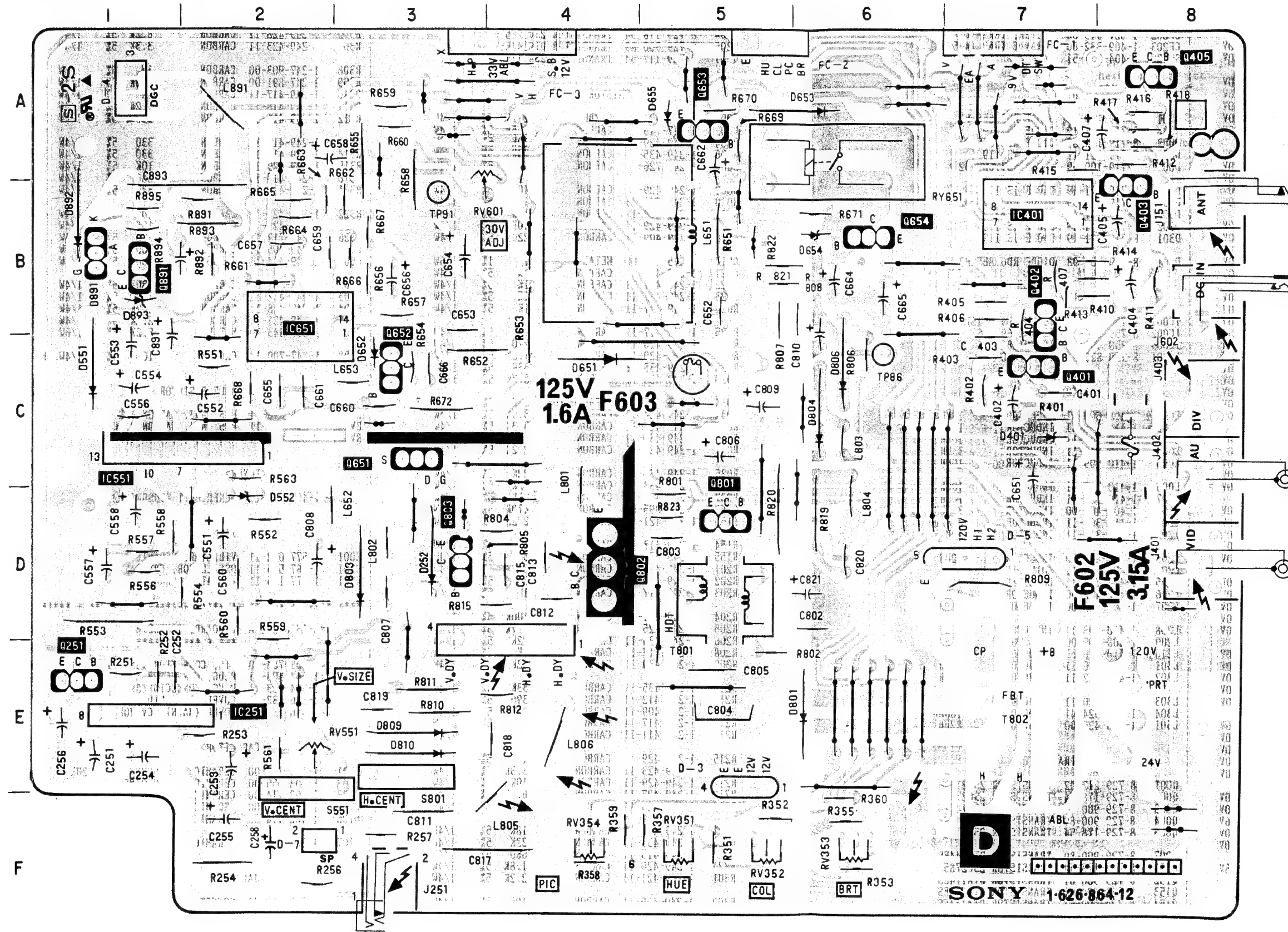


KV-8AD10  
RM-759KV-8AD10  
RM-759**D**

[AUDIO OUT, AV SW, H OUT, V OUT, 30V REG/OUT, DGS OUT, ABL]

— Conductor Side —

— D Board —



D Board

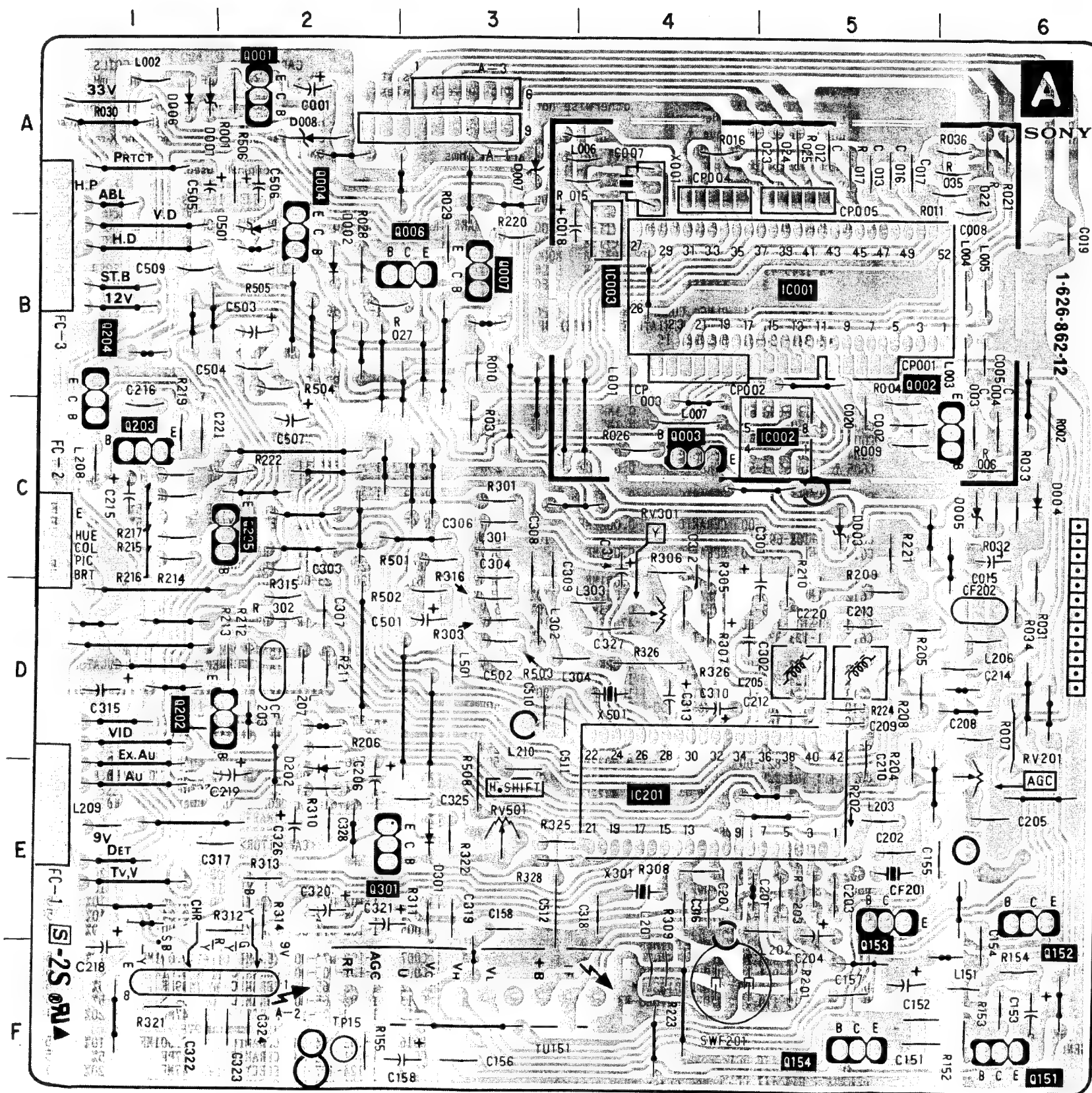
DIODE	
D251	E-1
D401	C-7
D551	C-1
D552	D-2
D651	C-4
D652	C-3
D653	A-6
D654	B-6
D801	E-6
D803	D-3
D804	C-6
D806	C-6
D807	C-5
D809	E-3
D810	E-3
D891	B-1
D892	B-1
D893	B-2
IC	
IC251	E-1
IC401	B-7
IC551	C-2
IC651	C-2
TRANSISTOR	
Q251	E-1
Q401	C-7
Q402	B-7
Q403	B-8
Q405	A-8
Q651	C-3
Q652	C-3
Q653	A-5
Q654	B-6
Q801	D-5
Q802	D-4
Q803	D-3
Q891	B-1
VARIABLE RESISTOR	
RV351	F-5
RV352	F-6
RV353	F-6
RV354	F-4
RV551	E-2
RV601	B-4



A

[VIF, SIF, Y/C, Y/C JUNGLE, CPU, VC OUT, SEEK AGC, SYNC SEP/AMP]

— A Board —



C

[RGB OUT, CHR OUT]

— C Board —

A Board

DIODE	
D001	A-1
D002	B-2
D003	C-5
D004	C-6
D005	C-6
D006	A-1
D151	E-6
D202	E-2
D301	E-3
D501	B-2
IC	
IC001	B-5
IC002	C-5
IC003	B-4
IC201	E-4
TRANSISTOR	
Q001	A-2
Q002	B-2
Q003	C-4
Q004	B-2
Q005	B-3
Q007	B-3
Q151	F-6
Q152	F-6
Q153	F-5
Q154	F-5
Q202	D-2
Q203	C-1
Q204	C-1
Q205	C-2
Q301	E-3
VARIABLE RESISTOR	
RV151	E-6
RV201	E-6
RV301	D-4
RV501	E-3

— H Board —

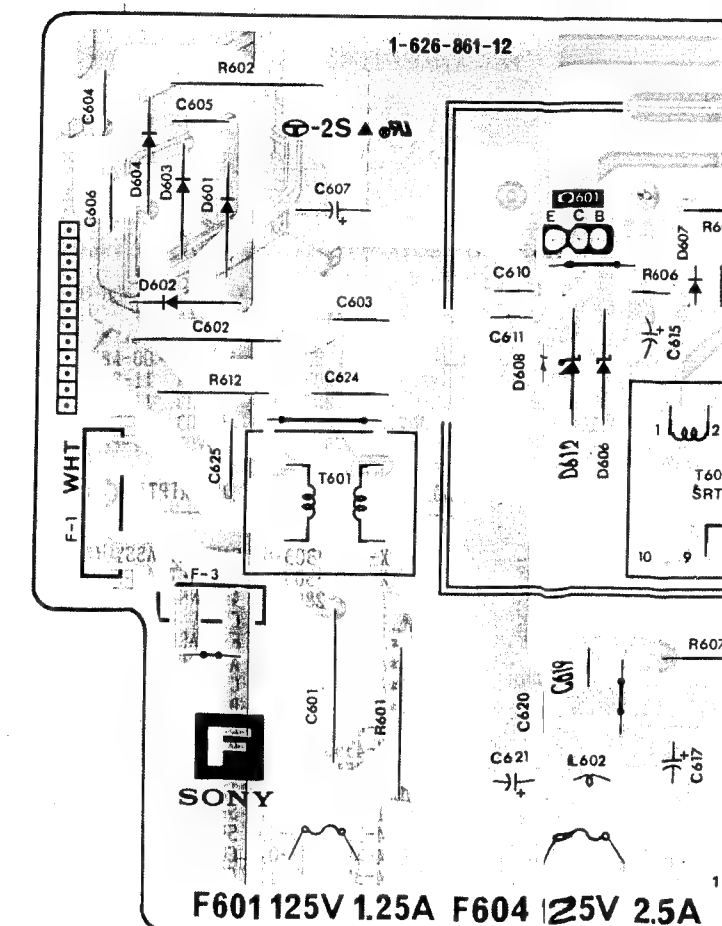
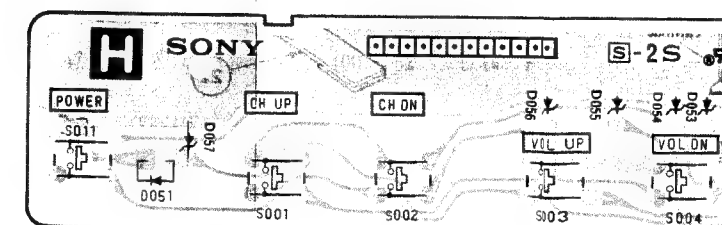
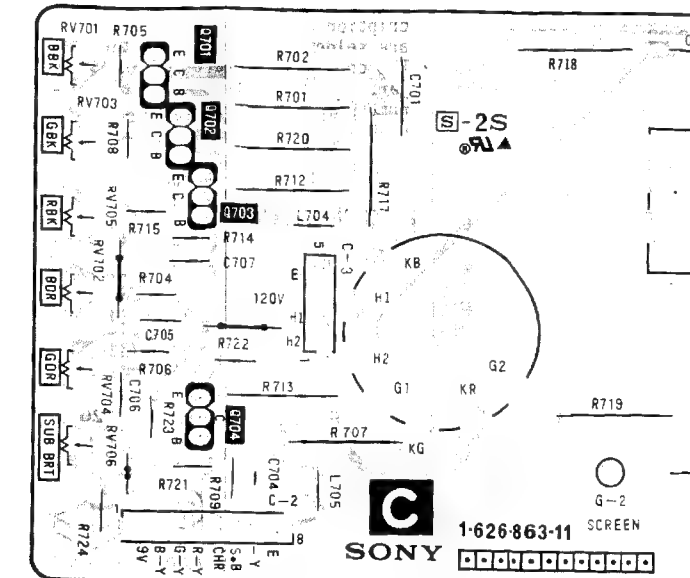
— F Board —

H

[LED DRV, POWER LED]

F

[CHOF]



**F** [CHOP OUT, AC RECT, DC RECT]

1-626-861-12

F-1 WHT

SONY

F601 125V 1.25A F604 125V 2.5A

F-2

DIODE	
D001	A-1
D002	B-2
D003	C-5
D004	C-6
D005	C-6
D006	A-1
D151	E-6
D202	E-2
D301	E-3
D501	B-2
IC	
IC001	B-5
IC002	C-5
IC003	B-4
IC201	E-4
TRANSISTOR	
Q001	A-2
Q002	B-2
Q003	C-4
Q004	B-2
Q005	
Q006	B-3
Q007	B-3
Q151	F-6
Q152	F-6
Q153	F-5
Q154	F-5
Q202	D-2
Q203	C-1
Q204	C-1
Q205	C-2
Q301	E-3
VARIABLE RESISTOR	
RV151	E-6
RV201	E-6
RV301	D-4
RV501	E-3

SECTION 7  
EXPLODED VIEW

## 6-3. SEMICONDUCTORS

LA7650



(Top view)

2SC2120

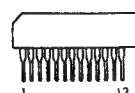


2SD773

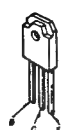


H2T33-02

LA7835



2SC2555N

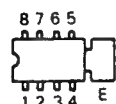


1S5119  
GP08D  
H2T33-02  
RD3.6ESB2  
RD5.6ESB2  
RD6.2ESB2  
RD6.8ESL3  
RD10ESB2  
RD10ESB3  
RD12ESB2

TVR4J



MSM16911RS

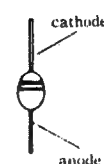


(Top view)

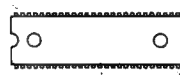
2SC2610



V19C



M50439-711SP

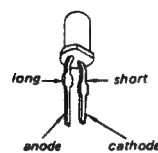


2SC2688

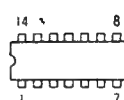


1S2076A  
EL1Z  
ERB43-04  
RGP10G

TLG124A



μPC1394C  
μPD4066



(Top view)

2SC2785



CR02AM-4



BUZ71



2SC4274  
2SD1266  
2SD835



ERC81-004  
RH-1



DTA114ES  
DTC144ES



## NOTE:

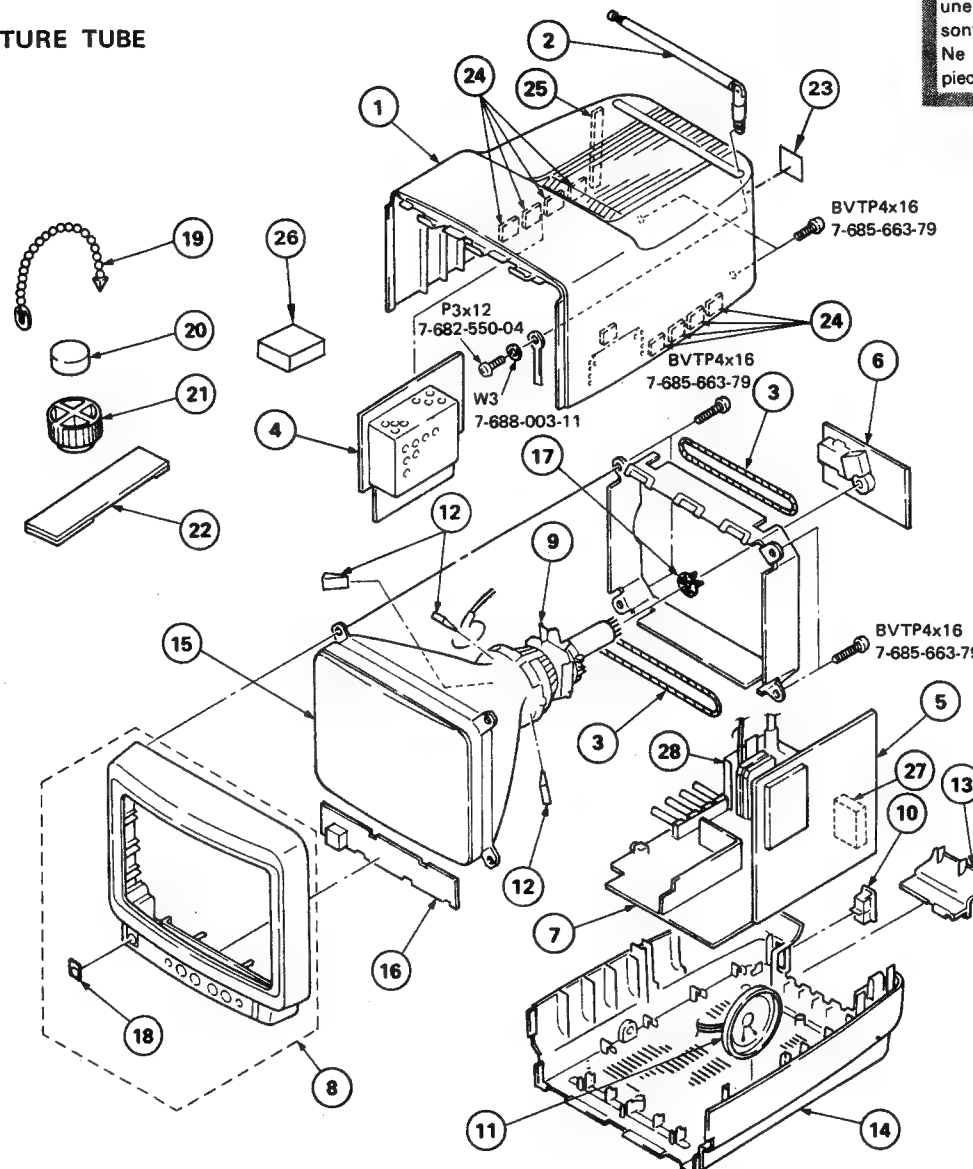
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

## PICTURE TUBE



NO.	PART NO.	DESCRIPTION	REMARK	NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-303-6	CABINET ASSY (WHITE)	24,25	14	4-390-310-01	CABINET, LOWER (WHITE)	
2	X-4390-303-7	CABINET ASSY (BLACK)	24,25	15	4-390-310-11	CABINET, LOWER (BLACK)	
3	1-501-286-00	ANTENNA, TELESCOPIC		16	$\Delta$ 8-737-151-05	PICTURE TUBE (A20JKU10X)	
4	$\Delta$ 1-426-382-11	COIL, DEMAGNETIZATION		17	*1-626-865-11	H BOARD	
5	*A-1245-450-A	F BOARD, COMPLETE		18	2-152-292-00	BASE, STEM	
6	*A-1296-462-A	A BOARD, COMPLETE		19	*4-390-302-01	FILTER	
7	*A-1330-884-A	C BOARD, COMPLETE		20	4-308-870-00	CLIP, LEAD WIRE	
8	*A-1345-837-A	D BOARD, COMPLETE		21	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
9	X-4390-302-6	BEZEL ASSY (WHITE)	18	22	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
10	X-4390-302-7	BEZEL ASSY (BLACK)	18	23	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
11	$\Delta$ 1-451-265-11	DEFLECTION YOKE (SY-167)		24	3-895-839-01	LABEL, SERIAL NUMBER	
12	$\Delta$ 1-540-032-11	INLET 2P		25	3-831-441-XX	CUSHION	
13	1-544-011-11	SPEAKER		26	9-911-835-XX	CUSHION, F	
	4-309-369-00	SPACER, DEFLECTION YOKE		27	1-452-512-11	MAGNET	
	4-390-307-01	COVER, CONNECTOR (WHITE)		28	$\Delta$ 1-465-045-11	TUNER UNIT (TUSOF3U-291)	
	4-390-307-11	COVER, CONNECTOR (BLACK)			$\Delta$ 1-439-436-11	TRANSFORMER ASSY, FLYBACK	



SECTION 8  
ELECTRICAL PARTS LIST

F

A

## NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F • MMH : mH, UH :  $\mu$ H

## COILS

• The components identified by **A** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1245-450-A	F BOARD, COMPLETE	*****					
*1-564-507-11	PLUG, CONNECTOR 4P						
*1-565-425-11	PLUG, MINIATURE (L TYPE) 3P						
*4-381-724-01	HOLDER, IC						
<CAPACITOR>				<COIL>			
C601 A	1-130-680-51	FILM 0.1MF 20% 125V		L602	1-407-365-00	COIL, CHOKE	
C602 A	1-130-680-51	FILM 0.1MF 20% 125V					
C603 A	1-161-964-51	CERAMIC 0.0047MF 250V		<TRANSISTOR>			
C604 A	1-161-964-51	CERAMIC 0.0047MF 250V		Q601 A	8-729-920-90	TRANSISTOR 2SC4274-02	
C605 A	1-161-964-51	CERAMIC 0.0047MF 250V		*4-363-146-00	HEAT SINK, V.OUT; Q601		
C606 A	1-161-964-51	CERAMIC 0.0047MF 250V		<RESISTOR>			
C607	1-124-959-11	ELECT 330MF 20% 200V		R601 A	1-216-389-11	METAL OXIDE 1 5% 3W F	
C608	1-101-821-00	CERAMIC 0.0022MF 500V		R602 A	1-216-393-51	METAL OXIDE 2.2 5% 3W F	
C609	1-108-692-11	MYLAR 0.01MF 10% 200V		R603	1-214-917-00	CARBON 150K 5% 1/2W	
C610	1-102-038-00	CERAMIC 0.001MF 500V		R604	1-215-925-11	METAL OXIDE 22K 5% 3W F	
C611	1-102-038-00	CERAMIC 0.001MF 500V		R605	1-215-913-11	METAL OXIDE 220 5% 3W F	
C612	1-106-345-00	MYLAR 0.0012MF 10% 100V		R606	1-249-417-11	CARBON 1K 5% 1/4W	
C613	1-108-843-11	MYLAR 0.033MF 10% 50V		R607	1-205-892-11	WIREWOUND 180 5% 5W F	
C614	1-102-114-00	CERAMIC 470PF 10% 50V		R612	1-202-723-00	SOLID 2.2M 10% 1/2W	
C615	1-123-330-00	ELECT 22MF 20% 16V		<TRANSFORMER>			
C616	1-102-114-00	CERAMIC 470PF 10% 50V		T601 A	1-424-120-11	TRANSFORMER, LINE FILTER	
C617	1-124-557-11	ELECT 1000MF 20% 25V		T602 A	1-449-391-21	TRANSFORMER, SWITCHING REGULATOR	
C618	1-124-557-11	ELECT 1000MF 20% 25V		*****			
C619	1-130-483-00	MYLAR 0.01MF 10% 50V		*A-1296-462-A	A BOARD, COMPLETE	*****	
C620	1-136-165-00	FILM 0.1MF 5% 50V		1-506-978-11	CONNECTOR, BOARD TO BOARD 6P		
C621	1-124-480-11	ELECT 470MF 20% 25V		1-564-098-00	CONNECTOR, BOARD TO BOARD 8P		
C622	1-101-821-00	CERAMIC 0.0022MF 500V		*1-564-512-11	PLUG, CONNECTOR 9P		
C624 A	1-164-229-11	CERAMIC 0.0033MF 20% 125V		1-564-610-11	CONNECTOR, BOARD TO BOARD		
C625 A	1-164-229-11	CERAMIC 0.0033MF 20% 125V		<CAPACITOR>			
<DIODE>				C001	1-124-477-11	ELECT 47MF 20% 16V	
D601 A	8-719-801-70	DIODE TVR4J		C002	1-102-112-00	CERAMIC 330PF 10% 50V	
D602 A	8-719-801-70	DIODE TVR4J		C003	1-102-074-00	CERAMIC 0.001MF 10% 50V	
D603 A	8-719-801-70	DIODE TVR4J		C004	1-108-812-11	MYLAR 0.047MF 10% 50V	
D604 A	8-719-801-70	DIODE TVR4J		C005	1-102-074-00	CERAMIC 0.001MF 10% 50V	
D605	1-806-549-41	DIODE ERB43-08		C007	1-102-074-00	CERAMIC 0.001MF 10% 50V	
D606 A	8-719-110-18	DIODE RD10ES-B3		C008	1-101-004-00	CERAMIC 0.01MF 50V	
D607 A	8-719-923-76	DIODE 1S2076A		C012	1-102-965-00	CERAMIC 39PF 5% 50V	
D608	8-719-911-19	DIODE 1SS119		C013	1-102-965-00	CERAMIC 39PF 5% 50V	
D609	8-719-510-09	DIODE D10SC6M		C015	1-124-477-11	ELECT 47MF 20% 16V	
D612 A	8-719-110-18	DIODE RD10ES-B3		C016	1-102-074-00	CERAMIC 0.001MF 10% 50V	
<FUSE>				C017	1-101-880-00	CERAMIC 47PF 5% 50V	
F601 A	1-532-741-11	FUSE, GLASS TUBE 1.25A/125V		C018	1-124-477-11	ELECT 47MF 20% 16V	
F604 A	1-532-744-11	FUSE, GLASS TUBE 2.5A/125V		C019	1-101-003-00	CERAMIC 0.0047MF 50V	
*1-533-189-11	HOLDER, FUSE; F604			C020	1-101-003-00	CERAMIC 0.0047MF 50V	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C151	1-108-812-11	MYLAR 0.047MF 10% 50V		CF201	1-404-816-11	DISCRIMINATOR, CERAMIC	
C152	1-108-843-11	MYLAR 0.033MF 10% 50V		CF202	1-527-943-00	FILTER, CERAMIC	
C153	1-124-477-11	ELECT 47MF 20% 16V		CF203	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
C154	1-101-004-00	CERAMIC 0.01MF 50V		SWF201	1-404-227-51	SAWF 45MHZ	
C155	1-101-004-00	CERAMIC 0.01MF 50V		<DIODE>			
C156	1-101-004-00	CERAMIC 0.01MF 50V		D001	8-719-109-89	DIODE RD5.6ES-B2	
C157	1-124-477-11	ELECT 47MF 20% 16V		D002	8-719-911-19	DIODE 1SS119	
C158	1-124-925-11	ELECT 2.2MF 20% 50V		D003	8-719-109-89	DIODE RD5.6ES-B2	
C201	1-102-121-00	CERAMIC 0.0022MF 10% 50V		D004	8-719-911-19	DIODE 1SS119	
C202	1-102-125-00	CERAMIC 0.0047MF 10% 50V		D005	8-719-109-69	DIODE RD3.6ES-B2	
C203	1-101-004-00	CERAMIC 0.01MF 50V		D006	8-719-911-19	DIODE 1SS119	
C204	1-123-875-11	ELECT 10MF 20% 50V		D007	8-719-109-89	DIODE RD5.6ES-B2	
C205	1-101-004-00	CERAMIC 0.01MF 50V		D008	8-759-157-40	IC UPC574J	
C206	1-124-925-11	ELECT 2.2MF 20% 50V		D202	8-719-911-19	DIODE 1SS119	
C207	1-101-004-00	CERAMIC 0.01MF 50V		D301	8-719-911-19	DIODE 1SS119	
C208	1-101-004-00	CERAMIC 0.01MF 50V		D501	8-719-109-98	DIODE RD6.8ES-B3	
C209	1-101-886-00	CERAMIC 62PF 5% 50V		<IC>			
C210	1-102-121-00	CERAMIC 0.0022MF 10% 50V		IC001	8-759-631-22	IC M50439-711SP	
C212	1-102-963-00	CERAMIC 33PF 5% 50V		IC002	8-759-947-18	IC MSM16911RS	
C213	1-101-886-00	CERAMIC 62PF 5% 50V		IC003	8-759-403-42	IC MM1280-Q	
C214	1-102-114-00	CERAMIC 470PF 10% 50V		IC201	8-759-820-93	IC LA7650	
C215	1-124-902-00	ELECT 0.47MF 20% 50V		<COIL>			
C216	1-106-355-12	MYLAR 0.0033MF 10% 50V		L001 A	1-408-603-41	INDUCTOR 10UH	
C218	1-124-120-11	ELECT 220MF 20% 16V		L002 A	1-410-328-21	INDUCTOR 10UH	
C219	1-124-925-11	ELECT 2.2MF 20% 50V		L003	1-410-509-11	INDUCTOR 10UH	
C220	1-102-074-00	CERAMIC 0.001MF 10% 50V		L004	1-410-515-11	INDUCTOR 33UH	
C221	1-102-074-00	CERAMIC 0.001MF 10% 50V		L005	1-410-509-11	INDUCTOR 10UH	
C301	1-124-925-11	ELECT 2.2MF 20% 50V		L006	1-410-509-11	INDUCTOR 10UH	
C302	1-123-382-00	ELECT 3.3MF 20% 50V		L007	1-410-328-11	INDUCTOR 10UH	
C303	1-101-004-00	CERAMIC 0.01MF 50V		L151	1-408-403-00	INDUCTOR 3.3UH	
C304	1-102-965-00	CERAMIC 39PF 5% 50V		L201	1-410-360-11	INDUCTOR 0.82UH	
C306	1-102-944-00	CERAMIC 7PF 0.5PF 50V		L202	1-410-316-11	INDUCTOR 1UH	
C307	1-101-004-00	CERAMIC 0.01MF 50V		L203	1-408-413-00	INDUCTOR 22UH	
C308	1-101-880-00	CERAMIC 47PF 5% 50V		L204	1-404-744-11	COIL, 1F	
C309	1-102-961-00	CERAMIC 27PF 5% 50V		L205	1-404-744-11	COIL, 1F	
C310	1-123-875-11	ELECT 10MF 20% 50V		L206	1-408-402-00	INDUCTOR 2.7UH	
C312	1-102-959-00	CERAMIC 22PF 5% 50V		L207	1-408-412-00	INDUCTOR 18UH	
C313	1-124-925-11	ELECT 2.2MF 20% 50V		L208	1-410-093-11	INDUCTOR 33MMH	
C314	1-124-499-11	ELECT 1MF 20% 50V		L209	1-408-409-00	INDUCTOR 10UH	
C315	1-123-875-11	ELECT 10MF 20% 50V		L210 A	1-410-316-21	INDUCTOR 1UH	
C316	1-136-165-00	FILM 0.1MF 5% 50V		L301	1-410-516-11	INDUCTOR 39UH	
C317	1-101-004-00	CERAMIC 0.01MF 50V		L302	1-410-512-11	INDUCTOR 18UH	
C318	1-102-952-00	CERAMIC 16PF 5% 50V		L303	1-410-520-11	INDUCTOR 82UH	
C319	1-130-485-00	MYLAR 0.015MF 10% 50V		L304	1-410-524-41	INDUCTOR 180UH	
C320	1-124-925-11	ELECT 2.2MF 20% 50V		L501	1-408-420-00	INDUCTOR 82UH	
C321	1-124-925-11	ELECT 2.2MF 20% 50V		<TRANSISTOR>			
C322	1-102-112-00	CERAMIC 330PF 10% 50V		Q001 A	8-729-212-02	TRANSISTOR 2SC2120-Y	
C323	1-102-112-00	CERAMIC 330PF 10% 50V		Q002	8-729-178-54	TRANSISTOR 2SC2785	
C324	1-102-112-00	CERAMIC 330PF 10% 50V		Q003	8-729-900-89	TRANSISTOR DTC144ES	
C325	1-102-112-00	CERAMIC 330PF 10% 50V		Q004	8-729-900-89	TRANSISTOR DTC144ES	
C504	1-108-843-11	MYLAR 0.033MF 10% 50V		Q006	8-729-178-54	TRANSISTOR 2SC2785	
C506	1-124-927-11	ELECT 4.7MF 20% 50V		Q007	8-729-900-89	TRANSISTOR DTC144ES	
C507	1-126-101-11	ELECT 100MF 20% 16V		Q151	8-729-178-54	TRANSISTOR 2SC2785	
C510	1-102-121-00	CERAMIC 0.0022MF 10% 50V		Q152	8-729-900-61	TRANSISTOR DTA114ES	
C511	1-102-074-00	CERAMIC 0.001MF 10% 50V		Q153	8-729-900-61	TRANSISTOR DTA114ES	
C512	1-161-379-00	CERAMIC 0.01MF 30% 25V		Q154	8-729-900-61	TRANSISTOR DTA114ES	
<FILTER>							

A

C

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q202	8-729-178-54	TRANSISTOR 2SC2785	
Q203	8-729-178-54	TRANSISTOR 2SC2785	
Q204	8-729-178-54	TRANSISTOR 2SC2785	
Q205	8-729-900-89	TRANSISTOR DTC144ES	
Q301	8-729-117-54	TRANSISTOR 2SA1175	
<RESISTOR>			
R001	1-249-421-11	CARBON 2.2K 5% 1/4W	
R002	1-247-715-11	CARBON 1.5K 5% 1/4W	
R004	1-249-429-11	CARBON 10K 5% 1/4W	
R006	1-249-435-11	CARBON 33K 5% 1/4W	
R007	1-247-726-11	CARBON 33K 5% 1/4W	
R009	1-249-429-11	CARBON 10K 5% 1/4W	
R010	1-249-441-11	CARBON 100K 5% 1/4W	
R011	1-249-429-11	CARBON 10K 5% 1/4W	
R015	1-249-429-11	CARBON 10K 5% 1/4W	
R016	1-249-409-11	CARBON 220 5% 1/4W	
R017	1-215-421-00	METAL 1K 1% 1/6W	
R021	1-249-417-11	CARBON 1K 5% 1/4W	
R022	1-249-417-11	CARBON 1K 5% 1/4W	
R023	1-249-417-11	CARBON 1K 5% 1/4W	
R024	1-249-417-11	CARBON 1K 5% 1/4W	
R025	1-249-417-11	CARBON 1K 5% 1/4W	
R026	1-249-410-11	CARBON 270 5% 1/4W	
R027	1-249-420-11	CARBON 1.8K 5% 1/4W	
R028	1-249-435-11	CARBON 33K 5% 1/4W	
R029	1-249-428-11	CARBON 8.2K 5% 1/4W	
R030	1-215-877-11	METAL OXIDE 22K 5% 1W F	
R031	1-249-424-11	CARBON 3.9K 5% 1/4W	
R032	1-249-423-11	CARBON 3.3K 5% 1/4W	
R033	1-249-430-11	CARBON 12K 5% 1/4W	
R034	1-249-421-11	CARBON 2.2K 5% 1/4W	
R035	1-249-433-11	CARBON 22K 5% 1/4W	
R036	1-249-433-11	CARBON 22K 5% 1/4W	
R037	1-249-433-11	CARBON 22K 5% 1/4W	
R152	1-247-895-00	CARBON 470K 5% 1/4W	
R153	1-249-421-11	CARBON 2.2K 5% 1/4W	
R154	1-249-413-11	CARBON 470 5% 1/4W	
R155	1-249-435-11	CARBON 33K 5% 1/4W	
R201	1-249-421-11	CARBON 2.2K 5% 1/4W	
R202	1-249-416-11	CARBON 820 5% 1/4W	
R203	1-249-417-11	CARBON 1K 5% 1/4W	
R204	1-249-441-11	CARBON 100K 5% 1/4W	
R205	1-249-425-11	CARBON 4.7K 5% 1/4W	
R206	1-249-433-11	CARBON 22K 5% 1/4W	
R208	1-249-417-11	CARBON 1K 5% 1/4W	
R209	1-249-430-11	CARBON 12K 5% 1/4W	
R210	1-249-435-11	CARBON 33K 5% 1/4W	
R211	1-249-412-11	CARBON 390 5% 1/4W	
R212	1-249-409-11	CARBON 220 5% 1/4W	
R213	1-249-417-11	CARBON 1K 5% 1/4W	
R214	1-249-411-11	CARBON 330 5% 1/4W	
R215	1-249-429-11	CARBON 10K 5% 1/4W	
R216	1-249-423-11	CARBON 3.3K 5% 1/4W	
R217	1-249-429-11	CARBON 10K 5% 1/4W	
R219	1-249-427-11	CARBON 6.8K 5% 1/4W	
R220	1-249-429-11	CARBON 10K 5% 1/4W	
R221	1-249-432-11	CARBON 18K 5% 1/4W	
R222	1-249-433-11	CARBON 22K 5% 1/4W	
R223	1-249-415-11	CARBON 680 5% 1/4W	
R224	1-249-420-11	CARBON 1.8K 5% 1/4W	
R301	1-249-421-11	CARBON 2.2K 5% 1/4W	
R302	1-249-429-11	CARBON 10K 5% 1/4W	

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R303	1-249-420-11	CARBON 1.8K 5% 1/4W	
R305	1-249-423-11	CARBON 3.3K 5% 1/4W	
R306	1-249-428-11	CARBON 8.2K 5% 1/4W	
R307	1-249-423-11	CARBON 3.3K 5% 1/4W	
R308	1-247-903-00	CARBON 1M 5% 1/4W	
R309	1-247-891-00	CARBON 330K 5% 1/4W	
R310	1-249-417-11	CARBON 1K 5% 1/4W	
R311	1-249-418-11	CARBON 1.2K 5% 1/4W	
R312	1-249-411-11	CARBON 330 5% 1/4W	
R313	1-249-411-11	CARBON 330 5% 1/4W	
R314	1-249-411-11	CARBON 330 5% 1/4W	
R315	1-249-429-11	CARBON 10K 5% 1/4W	
R316	1-249-415-11	CARBON 680 5% 1/4W	
R321	1-249-411-11	CARBON 330 5% 1/4W	
R322	1-249-429-11	CARBON 10K 5% 1/4W	
R325	1-249-429-11	CARBON 10K 5% 1/4W	
R326	1-247-712-11	CARBON 820 5% 1/4W	
R328	1-249-405-11	CARBON 100 5% 1/4W	
R501	1-249-414-11	CARBON 560 5% 1/4W	
R502	1-247-891-00	CARBON 330K 5% 1/4W	
R503	1-249-417-11	CARBON 1K 5% 1/4W	
R504	1-249-418-11	CARBON 1.2K 5% 1/4W	
R505	1-249-421-11	CARBON 2.2K 5% 1/4W	
R506	1-215-443-00	METAL 8.2K 1% 1/6W	
R508	1-247-700-11	CARBON 100 5% 1/4W F	
<VARIABLE RESISTOR>			
RV201	1-238-016-11	RES, ADJ, CARBON 10K	
RV301	1-238-013-11	RES, ADJ, CARBON 2.2K	
RV501	1-238-019-11	RES, ADJ, CARBON 47K	
<TUNER>			
TU151A 1-465-045-11 TUNER UNIT (TUSOF30-291)			
<CRYSTAL>			
X001	1-577-082-11	VIBRATOR, CERAMIC	
X301	1-567-505-11	OSCILLATOR, CRYSTAL	
X501	1-577-155-11	VIBRATOR, CERAMIC	
*****			
*A-1330-884-A C BOARD, COMPLETE			
*****			
*1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P			
*1-564-508-11 PLUG, CONNECTOR 5P			
*1-564-523-11 PLUG, CONNECTOR 8P			
*4-376-132-11 COVER (REAR LID), CV VOL			
*4-376-133-11 COVER (MAIN), CV VOL			
<CAPACITOR>			
C701	1-162-116-00	CERAMIC 680PF 20% 2KV	
C702	1-102-050-00	CERAMIC 0.01MF 500V	
C703	1-162-114-00	CERAMIC 0.0047MF 2KV	
C705	1-102-114-00	CERAMIC 470PF 10% 50V	
C706	1-102-114-00	CERAMIC 470PF 10% 50V	
C707	1-102-113-00	CERAMIC 390PF 10% 50V	
<JACK>			
J701	1-562-869-41	SOCKET, PICTURE TUBE	



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KV-8AD10  
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C

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<COIL>				C255	1-126-103-11	ELECT 470MF 20% 16V	
L704	1-408-420-00	INDUCTOR 82UH		C256	1-126-101-11	ELECT 100MF 20% 16V	
L705	1-408-413-00	INDUCTOR 22UH		C258	1-124-902-00	ELECT 0.47MF 20% 50V	
<TRANSISTOR>				C401	1-102-953-00	CERAMIC 18PF 5% 50V	
Q701	8-729-301-46	TRANSISTOR 2SC2610		C402	1-126-101-11	ELECT 100MF 20% 16V	
Q702	8-729-301-46	TRANSISTOR 2SC2610		C403	1-101-004-00	CERAMIC 0.01MF 50V	
Q703	8-729-301-46	TRANSISTOR 2SC2610		C404	1-123-875-11	ELECT 10MF 20% 50V	
Q704	8-729-301-46	TRANSISTOR 2SC2610		C405	1-124-499-11	ELECT 1MF 20% 50V	
<RESISTOR>				C551	1-124-477-11	ELECT 47MF 20% 16V	
R701	1-215-899-11	METAL OXIDE 15K 5% 2W F		C552	1-131-347-00	TANTALUM 1MF 10% 35V	
R702	1-202-822-00	SOLID 2.2K 10% 1/2W		C553	1-124-910-11	ELECT 47MF 20% 50V	
R704	1-249-409-11	CARBON 220 5% 1/4W		C554	1-124-478-11	ELECT 100MF 20% 25V	
R705	1-249-419-11	CARBON 1.5K 5% 1/4W		C556	1-101-004-00	CERAMIC 0.01MF 50V	
R706	1-249-409-11	CARBON 220 5% 1/4W		C557	1-124-925-11	ELECT 2.2MF 20% 50V	
R707	1-202-822-00	SOLID 2.2K 10% 1/2W		C558	1-124-480-11	ELECT 470MF 20% 25V	
R708	1-249-419-11	CARBON 1.5K 5% 1/4W		C651	1-124-480-11	ELECT 470MF 20% 25V	
R709	1-249-418-11	CARBON 1.2K 5% 1/4W		C652	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
R712	1-215-899-11	METAL OXIDE 15K 5% 2W F		C653	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
R713	1-202-822-00	SOLID 2.2K 10% 1/2W		C654	1-124-607-11	ELECT 2200MF 20% 50V	
R714	1-249-414-11	CARBON 560 5% 1/4W		C655	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R715	1-249-418-11	CARBON 1.2K 5% 1/4W		C656	1-123-875-11	ELECT 10MF 20% 50V	
R717	1-202-842-11	SOLID 220K 10% 1/2W		C657	1-108-796-11	MYLAR 0.0022MF 5% 50V	
R718	1-202-719-00	SOLID 1M 10% 1/2W		C658	1-126-233-11	ELECT 22MF 20% 50V	
R719	1-202-838-00	SOLID 100K 10% 1/2W		C659	1-136-165-00	FILM 0.1MF 5% 50V	
R720	1-215-899-11	METAL OXIDE 15K 5% 2W F		C660	1-102-244-00	CERAMIC 220PF 10% 500V	
R721	1-249-405-11	CARBON 100 5% 1/4W		C661	1-108-627-11	MYLAR 0.012MF 10% 100V	
R722	1-249-405-11	CARBON 100 5% 1/4W		C662	1-123-875-11	ELECT 10MF 20% 50V	
R723	1-249-405-11	CARBON 100 5% 1/4W		C664	1-126-101-11	ELECT 100MF 20% 16V	
R724	1-249-441-11	CARBON 100K 5% 1/4W		C665	1-124-120-11	ELECT 220MF 20% 16V	
<VARIABLE RESISTOR>				C666	1-101-004-00	CERAMIC 0.01MF 50V	
RV701	1-230-720-11	RES, ADJ, CARBON 4.7K		C802	1-106-359-00	MYLAR 0.0047MF 5% 50V	
RV702	1-230-717-11	RES, ADJ, CARBON 470		C803	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
RV703	1-230-720-11	RES, ADJ, CARBON 4.7K		C804	1-136-182-11	FILM 0.017MF 3% 600V	
RV704	1-230-717-11	RES, ADJ, CARBON 470		C805	1-162-115-00	CERAMIC 330PF 10% 2KV	
RV705	1-230-720-11	RES, ADJ, CARBON 4.7K		C806	1-124-912-11	ELECT 330MF 20% 50V	
RV706	1-230-497-11	RES, ADJ, CARBON 22K		C807	1-102-228-00	CERAMIC 470PF 10% 500V	
RV707	1-230-164-21	RES, ADJ, METAL GLAZE 55M		C808	1-124-912-11	ELECT 330MF 20% 50V	
*****				C809	1-124-046-00	ELECT 10MF 20% 160V	
*A-1345-837-A	D BOARD, COMPLETE			C810	1-124-910-11	ELECT 47MF 20% 50V	
*****				C811	1-130-789-00	FILM 1MF 10% 100V	
*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			C812	1-102-228-00	CERAMIC 470PF 10% 500V	
*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			C813	1-106-347-00	MYLAR 0.0015MF 10% 200V	
*1-533-189-11	HOLDER, FUSE			C815	1-136-165-00	FILM 0.1MF 5% 50V	
*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P			C817	1-130-983-00	FILM 1.5MF 10% 100V	
*1-564-505-11	PLUG, CONNECTOR 2P			C818	1-102-112-00	CERAMIC 330PF 10% 50V	
*4-341-751-01	EYELET			C820	1-108-812-11	MYLAR 0.047MF 5% 50V	
*4-365-216-00	SPACER, MICA			C821	1-124-499-11	ELECT 1MF 20% 50V	
*4-381-724-01	HOLDER, IC			C891	1-126-233-11	ELECT 22MF 20% 50V	
<CAPACITOR>				C892	1-124-798-11	ELECT 1MF 20% 160V	
C251	1-124-120-11	ELECT 220MF 20% 16V		C893	1-130-800-00	FILM 2.2MF 10% 250V	
C252	1-101-004-00	CERAMIC 0.01MF 50V		<DIODE>			
C253	1-124-925-11	ELECT 2.2MF 20% 50V		D252	8-719-911-55	DIODE U05G	
C254	1-124-477-11	ELECT 47MF 20% 16V		D401	8-719-110-31	DIODE RD12ES-B2	
				D551	8-719-911-55	DIODE U05G	
				D552	8-719-110-31	DIODE RD12ES-B2	
				D651	8-719-981-00	DIODE ERC81-004	
				D652	8-719-911-19	DIODE 1SS119	
				D653	8-719-911-55	DIODE U05G	
				D654	8-719-110-17	DIODE RD10ES-B2	
				D801	8-719-300-76	DIODE RH-1A	
				D803	8-719-971-20	DIODE ERC38-06	



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

- The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

**KV-8AD10**  
RM-759

**D**

**H**

REF.NO.	PART NO.	DESCRIPTION	REMARK
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R815	1-249-439-11	CARBON	68K 5% 1/4W
R819	1-215-857-11	METAL OXIDE	10 5% 1W F
R820	1-215-890-11	METAL OXIDE	470 5% 2W F
$\Delta$ R821	$\Delta$	METAL	1/6W
$\Delta$ R822	$\Delta$	METAL	1/6W

R823	1-249-421-11	CARBON	2.2K 5% 1/4W
R891	1-247-895-00	CARBON	470K 5% 1/4W
R892	1-249-437-11	CARBON	47K 5% 1/4W
$\Delta$ R893	$\Delta$ 1-247-713-91	CARBON	1K 5% 1/4W F
R894	1-249-417-11	CARBON	1K 5% 1/4W
R895	1-249-439-11	CARBON	68K 5% 1/4W

<VARIABLE RESISTOR>

RV351	1-237-209-11	RES, VAR, CARBON 20KX4
RV352	1-237-209-11	RES, VAR, CARBON 20KX4
RV353	1-237-209-11	RES, VAR, CARBON 20KX4
RV354	1-237-209-11	RES, VAR, CARBON 20KX4
RV551	1-238-019-11	RES, ADJ, CARBON 47K

RV601	1-238-009-11	RES, ADJ, CARBON 220
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<RELAY>

RY651	$\Delta$ 1-515-684-11	RELAY
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<SWITCH>

S551	1-554-186-00	SWITCH, LEVER
S801	1-554-186-00	SWITCH, LEVER

<TRANSFORMER>

T801	1-437-082-00	HDT
T802	$\Delta$ 1-439-436-11	TRANSFORMER ASSY, FLYBACK

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\*1-626-865-11 H BOARD  
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<DIODE>

DO51	8-719-812-43	DIODE TLG124A
DO57	8-719-109-89	DIODE RD5.6ES-B2

<IC>

IC051	8-741-148-33	IC SBX1483-59
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<TRANSISTOR>

Q051	8-729-178-55	TRANSISTOR 2SC2785-E
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<RESISTOR>

RO51	1-249-425-11	CARBON	4.7K 5% 1/4W
RO52	1-249-417-11	CARBON	1K 5% 1/4W

<SWITCH>

SO01	1-554-303-21	SWITCH, KEY BOARD
SO02	1-554-303-21	SWITCH, KEY BOARD
SO03	1-554-303-21	SWITCH, KEY BOARD
SO04	1-554-303-21	SWITCH, KEY BOARD

REF.NO.	PART NO.	DESCRIPTION	REMARK
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S005	1-554-303-21	SWITCH, KEY BOARD
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S011	$\Delta$ 1-554-303-11	SWITCH, KEY BOARD (POWER)
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MISCELLANEOUS

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1-452-032-00	MAGNET, DISK; 10MM $\phi$
1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$
1-452-512-11	MAGNET
1-501-286-00	ANTENNA, TELESCOPIC
$\Delta$ 1-540-032-11	INLET 2P

SP251	1-544-011-11	SPEAKER
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L901	$\Delta$ 1-451-265-11	DEFLECTION YOKE (SY-167)
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L902	$\Delta$ 1-426-382-11	COIL, DEMAGNETIZATION
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V901	$\Delta$ 8-737-151-05	PICTURE TUBE (A20JKU10X)
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ACCESSORIES AND PACKING MATERIALS

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PART NO.	DESCRIPTION	REMARK
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1-417-160-11	CONNECTOR, ANTENNA
1-465-070-11	REMOTE COMMANDER (RM-759) (BLACK)
1-465-070-21	REMOTE COMMANDER (RM-759) (WHITE)
1-551-802-21	CORD, CAR BATTERY
$\Delta$ 1-558-834-11	CORD, POWER

*3-704-295-01	BAG (STANDARD), PROTECTION
3-786-241-21	MANUAL, INSTRUCTION
3-786-241-31	MANUAL, INSTRUCTION
*4-390-321-01	INDIVIDUAL CARTON (FOR BLACK)
*4-390-322-01	INDIVIDUAL CARTON (FOR WHITE)

*4-390-323-01	SPACER
*4-390-328-01	CUSHION (UPPER) (ASSY)
*4-390-329-01	CUSHION (LOWER) (ASSY)

# SONY

# SERVICE MANUAL

*Canadian Model*

Serial No. 503,001 and later

Chassis No. SCC-C40A-A

## SUPPLEMENT-1

### SUBJECT: CIRCUIT MODIFICATIONS

File the supplement with the service manual.

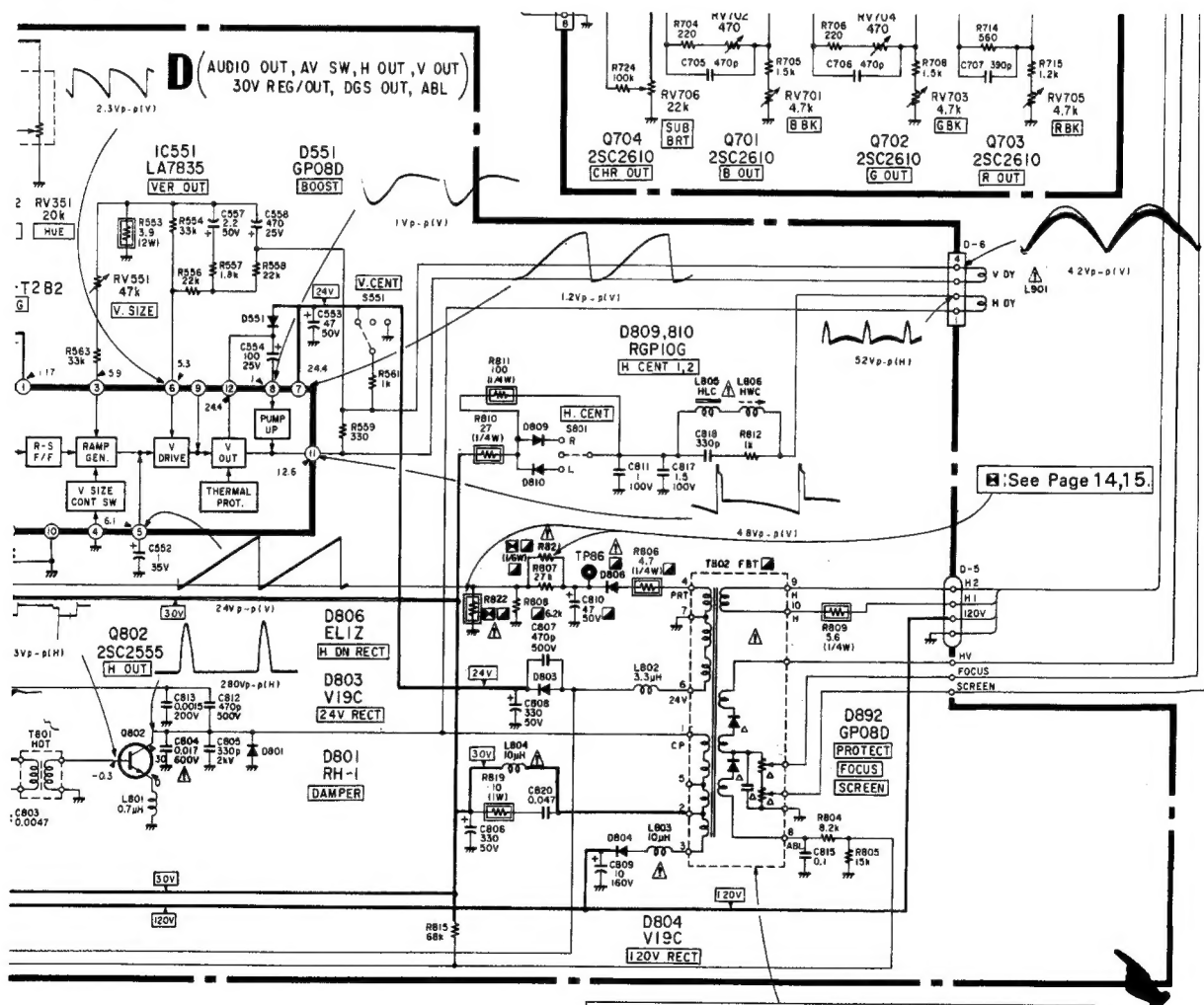
#### INTRODUCTION

1. Delete DGC circuit on the D BOARD.

 : indicate delete portion

#### 6-2. SCHEMATIC DIAGRAM

D BOARD: Page 22

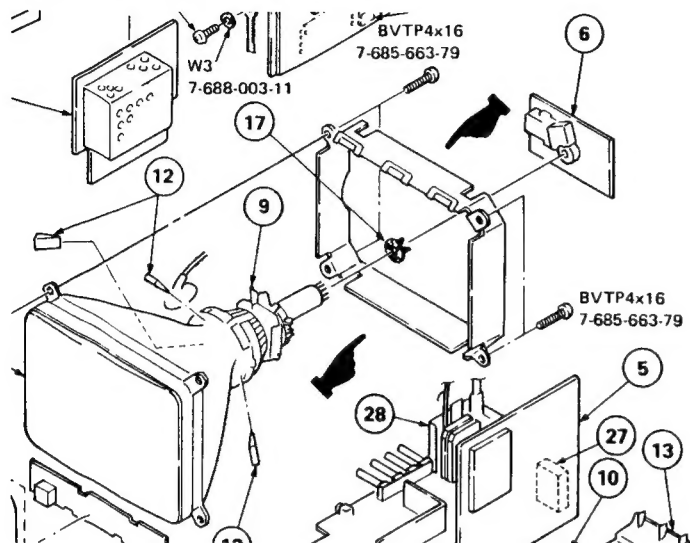


#### CAUTION

When replacing T802, be sure to check the point voltage value (TP86). Refer to the Safety Adjustment Section.



**SECTION 7**  
**EXPLODED VIEW: Page 29**



NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-303-6	CABINET ASSY (WHITE)	24,25
	X-4390-303-7	CABINET ASSY (BLACK)	24,25
2	1-501-286-00	ANTENNA, TELESCOPIC	
3	<del>1-426-382-11</del>	<del>COIL, DEMAGNETIZATION</del>	
4	*A-1245-450-A	F BOARD, COMPLETE	
5	*A-1296-462-A	A BOARD, COMPLETE	
6	*A-1330-884-A	C BOARD, COMPLETE	
7	*A-1345-837-A	D BOARD, COMPLETE	
8	X-4390-302-6	BEZEL ASSY (WHITE)	18
	X-4390-302-7	BEZEL ASSY (BLACK)	18
9	<del>1-451-265-11</del>	<del>DEFLECTION YOKE (SY-167)</del>	
10	<del>1-540-032-11</del>	<del>INLET 2P</del>	
11	1-544-011-11	SPEAKER	
12	4-309-369-00	SPACER, DEFLECTION YOKE	
13	4-390-307-01	COVER, CONNECTOR (WHITE)	
	4-390-307-11	COVER, CONNECTOR (BLACK)	

**SECTION 8 ELECTRICAL PARTS LIST**  
**D BOARD: Page 33-35**

\*A-1345-837-A D BOARD, COMPLETE  
\*\*\*\*\*

\*1-508-766-00 PIN, CONNECTOR (5MM PITCH) 4P  
\*1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P  
\*1-533-189-11 HOLDER, FUSE  
\*1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P  
\*1-564-505-11 PLUG, CONNECTOR 2P

C813	1-106-347-00	MYLAR	0.0015MF	10%	200V
C815	1-136-165-00	FILM	0.1MF	5%	50V
C817	1-130-983-00	FILM	1.5MF	10%	100V
C818	1-102-112-00	CERAMIC	330PF	10%	50V
C820	1-108-812-11	MYLAR	0.047MF	5%	50V

C821	1-124-499-11	ELECT	1MF	20%	50V
<del>C891</del>	<del>1-126-233-11</del>	<del>ELECT</del>	<del>22MF</del>	<del>20%</del>	<del>50V</del>
<del>C892</del>	<del>1-124-798-11</del>	<del>ELECT</del>	<del>1MF</del>	<del>20%</del>	<del>160V</del>
<del>C893</del>	<del>1-130-800-00</del>	<del>FILM</del>	<del>2.2MF</del>	<del>10%</del>	<del>250V</del>

L803 ~~1-410-328-21~~ INDUCTOR 10UH  
L804 ~~1-421-329-31~~ COIL, CHOKE  
L805 ~~1-459-370-12~~ COIL, FERRITE (HLC)  
L806 ~~1-459-597-11~~ COIL, VARIABLE  
~~L891~~ ~~1-459-109-00~~ COIL, DUST CORE

Q652 8-729-178-55 TRANSISTOR 2SC2785-E  
Q653 ~~1-426-382-11~~ TRANSISTOR 2SC2785-E  
Q654 ~~1-426-382-11~~ TRANSISTOR 2SD1266-Q  
Q801 8-729-119-80 TRANSISTOR 2SC2688-LK  
Q802 8-729-201-62 TRANSISTOR 2SC2555-2  
  
Q803 8-729-178-55 TRANSISTOR 2SC2785-E  
~~Q891~~ ~~8-729-906-24~~ ~~TRANSISTOR 2SD835~~

REF. NO.	PART NO.	DESCRIPTION	REMARK
R815	1-249-439-11	CARBON 68K 5%	1/4W
R819	1-215-857-11	METAL OXIDE 10 5%	1W F
R820	1-215-890-11	METAL OXIDE 470 5%	2W F
<del>R821</del>	<del>1-215-890-11</del>	<del>METAL</del>	<del>1/6W</del>
<del>R822</del>	<del>1-215-890-11</del>	<del>METAL</del>	<del>1/6W</del>
R823	1-249-421-11	CARBON 2.2K 5%	1/4W
<del>R891</del>	<del>1-247-895-00</del>	<del>CARBON 470K 5%</del>	<del>1/4W</del>
<del>R892</del>	<del>1-249-437-11</del>	<del>CARBON 47K 5%</del>	<del>1/4W</del>
<del>R893</del>	<del>1-247-713-91</del>	<del>CARBON 1K 5%</del>	<del>1/4W F</del>
<del>R894</del>	<del>1-249-417-11</del>	<del>CARBON 1K 5%</del>	<del>1/4W</del>
R895	1-249-439-11	CARBON 68K 5%	1/4W